The Monte Carlo and Empirical Illustration Supplement to "A One-Covariate at a Time, Multiple Testing Approach to Variable Selection in High-Dimensional Linear Regression Models"

A. Chudik
Federal Reserve Bank of Dallas

G. Kapetanios
King's College London, University of London

M. Hashem Pesaran
Department of Economics & USC Dornsife INET, University of Southern California, USA
and Trinity College, Cambridge, UK

10 November 2016

Contents

1 Introduction

This supplement provides a complete set of Monte Carlo (MC) findings and additional empirical results in connection to the paper Chudik, Kapetanios, and Pesaran (2016, hereafter CKP).

The MC set up is described in Section 5 of CKP, and covers five sets of data generating processes (DGPs). The full description of Monte Carlo experiments is provided in CKP. A brief summary of individual methods employed in the MC experiments is presented in Section 2 and the subsequent four sections present the full set of MC findings. Findings for experiments with Gaussian innovations and serially uncorrelated covariates (G-SU) are in Section 3, findings for experiments with non-Gaussian innovations and serially uncorrelated covariates (NG-SU) are in Section 4, findings for experiments with Gaussian innovations and serially correlated covariates (G-SC) are in Section 5, and findings for experiments with non-Gaussian innovations and serially correlated covariates (NG-SC) are in Section 6.

The empirical illustration is set out in Section 6 of CKP. Description of the individual methods employed and additional empirical results are presented in the last section of this Supplement (Section 7).

2 Description of Individual Methods in Monte Carlo Experiments

2.1 One Covariate at a Time Multiple Testing (OCMT) method

In the first stage, we consider the n bivariate regressions of y_t on a constant and x_{it} for $i = 1, 2, ..., n$,

$$y_t = c_{i,(1)} + \hat{\phi}_{i,(1)} x_{it} + e_{it,(1)},$$

and compute the t-ratios

$$t_{\hat{\phi}_{i,(1)}} = \frac{\hat{\phi}_{T,i,(1)}}{s.e.\left(\hat{\phi}_{T,i,(1)}\right)} = \frac{T^{-1/2}\boldsymbol{x}_i'\boldsymbol{M}_{(0)}\boldsymbol{y}}{\hat{\sigma}_{T,i,(1)}\sqrt{\boldsymbol{x}_i'\boldsymbol{M}_{(0)}\boldsymbol{x}_i}}, \tag{1}$$

where $\hat{\phi}_{T,i,(1)} = \left(\boldsymbol{x}_i'\boldsymbol{M}_{(0)}\boldsymbol{x}_i\right)^{-1}\boldsymbol{x}_i'\boldsymbol{M}_{(0)}\boldsymbol{y}$, $\hat{\sigma}^2_{T,i,(1)} = \boldsymbol{e}'_{i,(1)}\boldsymbol{e}_{i,(1)}/T$, $\boldsymbol{e}_{i,(1)} = \boldsymbol{M}_{i,(0)}\boldsymbol{y}$, $\boldsymbol{M}_{i,(0)} = \boldsymbol{I}_T - \boldsymbol{X}_{i,(0)}(\boldsymbol{X}'_{i,(0)}\boldsymbol{X}_{i,(0)})^{-1}\boldsymbol{X}'_{i,(0)}$, $\boldsymbol{X}_{i,(0)} = (\boldsymbol{x}_i, \boldsymbol{\tau}_T)$, and $\boldsymbol{M}_{(0)} = \boldsymbol{I}_T - \boldsymbol{\tau}_T\boldsymbol{\tau}_T'/T$. The first stage multiple testing estimator of $I\left(\beta_i \neq 0\right)$ is given by

$$I_{(1)}\widehat{(\beta_i \neq 0)} = I\left[\left|t_{\hat{\phi}_{i,(1)}}\right| > c_p(n,\delta)\right], \ i = 1, 2, ..., n,$$

where the critical value function, $c_p(n,\delta)$, is

$$c_p(n,\delta) = \Phi^{-1}\left(1 - \frac{p}{2f\left(n,\delta\right)}\right), \tag{2}$$

in which $\Phi^{-1}(.)$ is the inverse function of the cumulative standard normal distribution, $f(n) = n^{\delta}$, and $\delta > 0$. Regressors for which $I_{(1)}\widehat{(\beta_i \neq 0)} = 1$ are selected as signals in the first stage. Denote the number of variables selected in the first stage by $\hat{k}^o_{n,T,(1)}$, the index set of the selected variables by $\mathcal{S}^o_{(1)}$, and the $T \times \hat{k}^o_{n,T,(1)}$ matrix of the $\hat{k}^o_{n,T,(1)}$ selected variables by $\boldsymbol{X}^o_{(1)}$. Finally, let $\boldsymbol{X}_{(1)} = (\boldsymbol{\tau}_T, \boldsymbol{X}^o_{(1)})$, $\hat{k}_{n,T,(1)} = \hat{k}^o_{n,T,(1)}$, $\mathcal{S}_{(1)} = \mathcal{S}^o_{(1)}$ and $\mathcal{N}_{(1)} = \{1,2,...,n\} \setminus \mathcal{S}_{(1)}$.

In stages $j = 2,3,...$, we consider the $n - \hat{k}_{(j-1)}$ regressions of y_t on the variables in $\boldsymbol{X}_{(j-1)}$ and, one at the time, x_{it} for $i \in \mathcal{N}_{(j-1)}$. We then compute the following t-ratios

$$t_{\hat{\phi}_i,(j)} = \frac{\hat{\phi}_{T,i,(j)}}{s.e.\left(\hat{\phi}_{T,i,(j)}\right)} = \frac{\boldsymbol{x}_i'\boldsymbol{M}_{(j-1)}\mathbf{y}}{\hat{\sigma}_{T,i,(j)}\sqrt{\boldsymbol{x}_i'\boldsymbol{M}_{(j-1)}\boldsymbol{x}_i}}, \text{ for } i \in \mathcal{N}_{(j-1)},\ j = 2,3,..., \tag{3}$$

where $\hat{\phi}_{T,i,(j)} = \left(\boldsymbol{x}_i'\boldsymbol{M}_{(j-1)}\boldsymbol{x}_i\right)^{-1}\boldsymbol{x}_i'\boldsymbol{M}_{(j-1)}\boldsymbol{y}$, $\hat{\sigma}^2_{T,i,(j)} = T^{-1}\boldsymbol{e}'_{i,(j)}\boldsymbol{e}_{i,(j)}$, $\boldsymbol{M}_{(j-1)} = \boldsymbol{I}_T - \boldsymbol{X}_{(j-1)}(\boldsymbol{X}'_{(j-1)}\boldsymbol{X}_{(j-1)})^{-1}\boldsymbol{X}'_{(j-1)}$, $\mathbf{e}_{i,(j)} = \boldsymbol{M}_{i,(j-1)}\boldsymbol{y}$ denotes the residual of the regression, $\boldsymbol{M}_{i,(j-1)} = \boldsymbol{I}_T - \boldsymbol{X}_{i,(j-1)}(\boldsymbol{X}'_{i,(j-1)}\boldsymbol{X}_{i,(j-1)})^{-1}\boldsymbol{X}'_{i,(j-1)}$, and $\boldsymbol{X}_{i,(j-1)} = \left(\boldsymbol{x}_i, \boldsymbol{X}_{(j-1)}\right)$. Regressors for which

$$I_{(j)}\widehat{(\beta_i \neq 0)} = I\left[\left|t_{\hat{\phi}_{i,(j)}}\right| > c_p(n,\delta^*)\right] = 1, \text{ for } j = 2,3,...$$

are then added to the set of already selected signal variables from the previous stages, and note that $\delta^* > \delta > 0$. Denote the number of variables selected in stage j by $\hat{k}^o_{n,T,(j)}$, their index set by $\mathcal{S}^o_{(j)}$, and the $T \times \hat{k}^o_{n,T,(j)}$ matrix of the $\hat{k}^o_{n,T,(j)}$ selected variables by $\mathbf{X}^o_{(j)}$. Also define $\mathbf{X}_{(j)} = (\mathbf{X}_{(j-1)}, \mathbf{X}^o_{(j)})$, $\hat{k}_{n,T,(j)} = \hat{k}^o_{n,T,(j)} + \hat{k}_{n,T,(j-1)}$, $\mathcal{S}_{(j)} = \mathcal{S}^o_{(j)} \cup \mathcal{S}_{(j-1)}$, and $\mathcal{N}_{(j)} = \{1,2,...,n\} \setminus \mathcal{S}_{(j)}$, and then proceed to stage $j+1$. The procedure stops when no regressors are selected at a given stage, which we denote by stage $\hat{J}$, and the number of stages where at least one variable was selected is denoted by $\hat{P} = \hat{J} - 1$.

In this multiple procedure $I\widehat{(\beta_i \neq 0)} = 1$ as long as $I_{(j)}\widehat{(\beta_i \neq 0)} = 1$ for some $j = 1,2,...,\hat{P}$. In a final step, the regression model is estimated by running the OLS regression of y_t on all selected variables, namely the regressors x_{it} for which $I\widehat{(\beta_i \neq 0)} = 1$, over all $i = 1,2,....,n$.

We consider two choices for $(\delta,\delta^*) \in \{(1,1.5),(1,2)\}$ and three choices for $p = 0.1$, 0.05, and 0.01 in all experiments, which gives 6 critical value functions in total.

2.2 Penalised regression methods

Penalised regressions are implemented solving the following optimization problem,[1]

$$\min_{\boldsymbol{\beta}} Q(\boldsymbol{\beta}),\ Q(\boldsymbol{\beta}) = (2T)^{-1}\sum_{t=1}^{T}\left(\tilde{y}_t - \sum_{i=1}^{n}\beta_i\tilde{x}_{it}\right)^2 + \|P_\lambda(\boldsymbol{\beta})\|_1,$$

[1] We used the same codes for the Lasso, Hard thresholding and Sica penalised regression methods as in Zheng, Fan, and Lv (2014). We are grateful to Zemin Zheng for providing us with Matlab codes for these penalised regression methods.

where $\tilde{y}_t = y_t - T^{-1}\sum_{t=1}^{T} y_t$ and $P_\lambda(\boldsymbol{\beta}) = P_\lambda(|\boldsymbol{\beta}|) = [p_\lambda(|\beta_1|), p_\lambda(|\beta_2|), ..., p_\lambda(|\beta_n|)]'$. Depending on the choice of the penalty function, we have:

$$\begin{aligned} \text{Lasso: } p_\lambda(\beta) &= \lambda\beta \\ \text{Sica: } p_\lambda(\beta, a) &= \lambda(a+1)\beta/(a+\beta), \text{ with a small shape parameter } a = 10^{-4} \\ \text{Hard thresholding: } p_\lambda(\beta) &= \frac{1}{2}\left\{\lambda^2 - (\lambda-\beta)_+^2\right\}, \beta \geq 0. \end{aligned}$$

These penalty functions are popular in the literature, see, e.g., Tibshirani (1996), Lv and Fan (2009), and Zheng, Fan, and Lv (2014). We consider the same set of possible values for the penalization parameter λ as in Zheng, Fan, and Lv (2014), namely $\lambda \in \Lambda \equiv \{\lambda_{\min}, \lambda_{\min} + \lambda_\epsilon, \lambda_{\min} + 2\lambda_\epsilon, ..., \lambda_{\max}\}$, where

$$\lambda_{\max} = \max_{i=1,2,...,n}\left|T^{-1}\tilde{\boldsymbol{x}}_i'\tilde{\boldsymbol{y}}\right|, \; \lambda_{\min} = \epsilon\lambda_{\max}, \;\; \tilde{\boldsymbol{y}} = (\tilde{y}_1, \tilde{y}_2, ..., \tilde{y}_T)'$$

$$\epsilon = \begin{cases} 0.001, & \text{for } n \leq T \\ 0.01, & \text{for } n > T \end{cases},$$

and $\lambda_\epsilon = (\lambda_{\max} - \lambda_{\min})/(K-1)$, with $K = 50$. Following the literature we selecting λ using 10-fold cross-validation. That is, we divide the available sample into 10 sub-samples of equal length. One at a time, one sub-sample is used for validation and the remaining 9 for training. This gives us 10 different selected values of λ, which we then average, and this average is denoted as $\hat{\lambda}_a$. We then choose $\lambda = \arg\min_{\lambda\in\Lambda}\left|\lambda - \hat{\lambda}_a\right|$.

We also consider adaptive Lasso method as described in Section 2.8.4 of Buhlmann and van de Geer (2011) based on the implementation of the Lasso method described above.

2.3 Boosting

We consider the boosting algorithm proposed by Buhlmann (2006). This algorithm can be described as follows

Algorithm 1 *1. (initialization). Let $\tilde{\boldsymbol{x}}_{nt} = (\tilde{x}_{1t}, \tilde{x}_{2t}, ..., \tilde{x}_{nt})'$, $\tilde{\boldsymbol{X}}_n = (\tilde{\boldsymbol{x}}_1, \tilde{\boldsymbol{x}}_2, ..., \tilde{\boldsymbol{x}}_n)$ and $\boldsymbol{e} = (e_1, e_2, .., e_T)'$. Define the least squares base procedure:*

$$\hat{g}_{\tilde{\boldsymbol{X}},\boldsymbol{e}}(\tilde{\boldsymbol{x}}_{nt}) = \hat{\delta}_{\hat{s}}\tilde{x}_{\hat{s}t}, \; \hat{s} = \arg\min_{1\leq i\leq n}\left(\boldsymbol{e} - \hat{\delta}_i\tilde{\boldsymbol{x}}_i\right)'\left(\boldsymbol{e} - \hat{\delta}_i\tilde{\boldsymbol{x}}_i\right), \;\; \hat{\delta}_i = \frac{\boldsymbol{e}'\tilde{\boldsymbol{x}}_i}{\tilde{\boldsymbol{x}}_i'\tilde{\boldsymbol{x}}_i},$$

2. *Given data $\tilde{\boldsymbol{X}}_n$ and $\tilde{\boldsymbol{y}} = (\tilde{y}_1, \tilde{y}_2, ..., \tilde{y}_T)'$,apply the base procedure to obtain $\hat{g}^{(1)}_{\tilde{\boldsymbol{X}},\tilde{\boldsymbol{y}}}(\tilde{\boldsymbol{x}}_{nt})$. Set $\hat{F}^{(1)}(\tilde{\boldsymbol{x}}_{nt}) = v\hat{g}^{(1)}_{\tilde{\boldsymbol{X}},\tilde{\boldsymbol{y}}}(\tilde{\boldsymbol{x}}_{nt})$, for some $v > 0$, Set $\hat{s}^{(1)} = \hat{s}$ and $m = 1$.*

3. *Compute the residual vector $\boldsymbol{e} = \tilde{\boldsymbol{y}} - \hat{F}^{(m)}(\tilde{\boldsymbol{X}}_n)$, where $\hat{F}^{(m)}(\tilde{\boldsymbol{X}}_n) = (\hat{F}^{(m)}(\tilde{\boldsymbol{x}}_{n1}), \hat{F}^{(m)}(\tilde{\boldsymbol{x}}_{n2}), ..., \hat{F}^{(m)}(\tilde{\boldsymbol{x}}_{nT}))'$, and fit the base procedure to these residuals to obtain the fit values $\hat{g}^{(m+1)}_{\tilde{\boldsymbol{X}},\boldsymbol{e}}(\tilde{\boldsymbol{x}}_{nt})$ and $\hat{s}^{(m)}$. Update*

$$\hat{F}^{(m+1)}(\tilde{\boldsymbol{x}}_{nt}) = \hat{F}^{(m)}(\tilde{\boldsymbol{x}}_{nt}) + v\hat{g}^{(m+1)}_{\boldsymbol{X},\boldsymbol{e}}(\tilde{\boldsymbol{x}}_{nt}).$$

4. *Increase the iteration index m by one and repeat step 3 until the stopping iteration M is achieved. The stopping iteration is given by*

$$M = \arg\min_{1\leq m\leq m_{\max}} AIC_C(m),$$

for some predetermined large $m_{\max}$, *where*

$$AIC_C(m) = \log(\hat{\sigma}^2) + \frac{1 + tr\left(\mathcal{B}_m\right)/T}{1 - \left(tr\left(\mathcal{B}_m\right) + 2\right)/T},$$

$$\hat{\sigma}^2 = \frac{1}{T}\left(\boldsymbol{y} - \mathcal{B}_m \tilde{\boldsymbol{y}}\right)' \left(\boldsymbol{y} - \mathcal{B}_m \tilde{\boldsymbol{y}}\right),$$

$$\mathcal{B}_m = I - \left(I - v\mathcal{H}^{(\hat{s}_m)}\right)\left(I - v\mathcal{H}^{(\hat{s}_{m-1})}\right)...\left(I - v\mathcal{H}^{(\hat{s}_1)}\right),$$

$$\mathcal{H}^{(j)} = \frac{\tilde{\boldsymbol{x}}_j \tilde{\boldsymbol{x}}_j'}{\tilde{\boldsymbol{x}}_j' \tilde{\boldsymbol{x}}_j}.$$

We set $m_{\max} = 500$ and consider two values for the tuning parameter: $v = 0.1$ and 1. The former is suggested in Buhlmann (2006).

3 Findings for Experiments with Gaussian Innovations and Serially Uncorrelated Covariates (G-SU)

We ordered and numbered individual tables as follows:

Summary table for experiments with Gaussian innovations and serially uncorrelated covariates (G-SU): List of experiments.

Table No.	DGP	ω	R^2	T	Table No.	DGP	R^2	T	Table No.	DGP	R^2	T
1	I(a)	-	70%	100	46	II(a)	70%	100	91	V	70%	100
2	I(a)	-	70%	300	47	II(a)	70%	300	92	V	70%	300
3	I(a)	-	70%	500	48	II(a)	70%	500	93	V	70%	500
4	I(a)	-	50%	100	49	II(a)	50%	100	94	V	50%	100
5	I(a)	-	50%	300	50	II(a)	50%	300	95	V	50%	300
6	I(a)	-	50%	500	51	II(a)	50%	500	96	V	50%	500
7	I(a)	-	30%	100	52	II(a)	30%	100	97	V	30%	100
8	I(a)	-	30%	300	53	II(a)	30%	300	98	V	30%	300
9	I(a)	-	30%	500	54	II(a)	30%	500	99	V	30%	500
10	I(b)	-	70%	100	55	II(b)	70%	100				
11	I(b)	-	70%	300	56	II(b)	70%	300				
12	I(b)	-	70%	500	57	II(b)	70%	500				
13	I(b)	-	50%	100	58	II(b)	50%	100				
14	I(b)	-	50%	300	59	II(b)	50%	300				
15	I(b)	-	50%	500	60	II(b)	50%	500				
16	I(b)	-	30%	100	61	II(b)	30%	100				
17	I(b)	-	30%	300	62	II(b)	30%	300				
18	I(b)	-	30%	500	63	II(b)	30%	500				
19	I(c)	-	70%	100	64	III	70%	100				
20	I(c)	-	70%	300	65	III	70%	300				
21	I(c)	-	70%	500	66	III	70%	500				
22	I(c)	-	50%	100	67	III	50%	100				
23	I(c)	-	50%	300	68	III	50%	300				
24	I(c)	-	50%	500	69	III	50%	500				
25	I(c)	-	30%	100	70	III	30%	100				
26	I(c)	-	30%	300	71	III	30%	300				
27	I(c)	-	30%	500	72	III	30%	500				
28	I(d)	low	70%	100	73	IV(a)	70%	100				
29	I(d)	low	70%	300	74	IV(a)	70%	300				
30	I(d)	low	70%	500	75	IV(a)	70%	500				
31	I(d)	low	50%	100	76	IV(a)	50%	100				
32	I(d)	low	50%	300	77	IV(a)	50%	300				
33	I(d)	low	50%	500	78	IV(a)	50%	500				
34	I(d)	low	30%	100	79	IV(a)	30%	100				
35	I(d)	low	30%	300	80	IV(a)	30%	300				
36	I(d)	low	30%	500	81	IV(a)	30%	500				
37	I(d)	high	70%	100	82	IV(b)	70%	100				
38	I(d)	high	70%	300	83	IV(b)	70%	300				
39	I(d)	high	70%	500	84	IV(b)	70%	500				
40	I(d)	high	50%	100	85	IV(b)	50%	100				
41	I(d)	high	50%	300	86	IV(b)	50%	300				
42	I(d)	high	50%	500	87	IV(b)	50%	500				
43	I(d)	high	30%	100	88	IV(b)	30%	100				
44	I(d)	high	30%	300	89	IV(b)	30%	300				
45	I(d)	high	30%	500	90	IV(b)	30%	500				

Notes: ω is the average pair-wise correlation of the signal variables. The low value is $\omega = 0.2$ and the high value is $\omega = 0.8$. See section 5 of CKP for a full description of MC design.

3.1 Findings for designs with zero correlation between signal and noise variables

Table 1: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0017	0.0316	1.005	1.164	1.000	0.854	4.16	4	5	7	1.022
	200	1.0000	0.0009	0.0336	1.006	1.169	1.000	0.841	4.17	4	5	7	1.012
	300	1.0000	0.0006	0.0346	1.006	1.224	1.000	0.841	4.18	4	5	7	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0186	1.003	1.111	1.000	0.912	4.10	4	5	7	1.017
	200	1.0000	0.0005	0.0192	1.004	1.109	1.000	0.909	4.10	4	5	7	1.009
	300	1.0000	0.0003	0.0189	1.003	1.136	1.000	0.909	4.10	4	5	6	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0048	1.001	1.035	1.000	0.977	4.02	4	4	6	1.004
	200	1.0000	0.0001	0.0043	1.001	1.039	1.000	0.979	4.02	4	4	5	1.003
	300	0.9999	0.0001	0.0060	1.001	1.059	1.000	0.970	4.03	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0280	1.004	1.106	1.000	0.871	4.15	4	5	7	1.003
	200	1.0000	0.0008	0.0315	1.005	1.128	1.000	0.852	4.16	4	5	7	1.001
	300	1.0000	0.0006	0.0325	1.004	1.154	1.000	0.850	4.17	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0157	1.002	1.063	1.000	0.926	4.08	4	5	7	1.002
	200	1.0000	0.0005	0.0177	1.003	1.085	1.000	0.916	4.09	4	5	7	1.001
	300	1.0000	0.0003	0.0176	1.003	1.090	1.000	0.915	4.09	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0042	1.001	1.022	1.000	0.980	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0039	1.001	1.033	1.000	0.981	4.02	4	4	5	1.001
	300	0.9999	0.0001	0.0058	1.001	1.043	1.000	0.971	4.03	4	4	6	1.001
Penalised regression methods													
Lasso	100	0.9983	0.0595	0.4834	1.045	1.637	0.993	0.091	9.71	4	20	44	-
	200	0.9985	0.0414	0.5570	1.055	1.854	0.994	0.066	12.11	4	26	58	-
	300	0.9974	0.0362	0.6075	1.061	2.010	0.990	0.050	14.70	4	33	88	-
Adaptive Lasso	100	0.9350	0.0070	0.0955	1.049	2.901	0.752	0.489	4.41	3	7	36	-
	200	0.9398	0.0074	0.1510	1.056	3.227	0.774	0.425	5.21	3	10	44	-
	300	0.9454	0.0087	0.2084	1.065	3.530	0.797	0.366	6.36	3	17	59	-
Sica	100	0.6211	0.0063	0.1098	1.149	8.019	0.079	0.019	3.09	1	6	21	-
	200	0.5639	0.0025	0.0982	1.175	9.407	0.029	0.009	2.74	1	6	12	-
	300	0.5409	0.0015	0.0887	1.186	10.043	0.018	0.004	2.60	1	5	14	-
Hard thresholding	100	0.6476	0.0022	0.0395	1.137	8.279	0.215	0.142	2.80	1	5	11	-
	200	0.6066	0.0012	0.0416	1.157	9.342	0.153	0.103	2.65	1	5	14	-
	300	0.5943	0.0010	0.0480	1.165	9.655	0.121	0.069	2.66	1	5	20	-
Boosting methods													
$v = 0.1$	100	0.9990	0.3439	0.8891	1.130	3.937	0.996	0.000	37.01	28	47	54	-
	200	0.9990	0.3107	0.9382	1.200	5.703	0.996	0.000	64.90	58	72	81	-
	300	0.9988	0.2408	0.9467	1.204	5.750	0.995	0.000	75.28	68	83	91	-
$v = 1$	100	0.9476	0.1761	0.8017	1.269	9.576	0.795	0.000	20.69	13	32	54	-
	200	0.8910	0.2096	0.9143	1.460	16.888	0.596	0.000	44.64	28	69	102	-
	300	0.8411	0.2309	0.9505	1.737	>100	0.449	0.000	71.70	47	102.5	125	-

Notes: There are $k = 4$ signal variables ($i = 1, 2, 3, 4$) and $k^* = 0$ pseudo-signal variables. TPR is the true positive rate, FPR is the false positive rate, FDR is the false discovery rater, RMSFE is the root mean square forecast error relative to the true benchmark model, rRMSE$_{\tilde{\beta}}$ is the root mean square error of $\tilde{\boldsymbol{\beta}}$ relative to the true benchmark model, $\hat{\pi}_k$ is the probability that variables $i = 1, 2, ..., k$ are among the selected variables, $\hat{\pi}$ is the probability of the true model (featuring the first k variables), $\overline{\hat{\kappa}}$ is the average number of selected variables, $\hat{\kappa}_5$ and $\hat{\kappa}_{95}$, respectively, are the 5th and the 95th quantiles of the distribution of the number of selected variables, and $\hat{\kappa}_{\max}$ is the largest number of selected variables. $\overline{\hat{P}}$ is the average number of OCMT stages. See Section 5 of CKP for a description of the design.

Table 2: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0218	1.001	1.094	1.000	0.898	4.11	4	5	7	1.007
	200	1.0000	0.0007	0.0256	1.001	1.115	1.000	0.883	4.13	4	5	6	1.007
	300	1.0000	0.0005	0.0259	1.001	1.140	1.000	0.879	4.13	4	5	7	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0112	1.001	1.057	1.000	0.947	4.06	4	5	6	1.004
	200	1.0000	0.0004	0.0137	1.001	1.075	1.000	0.935	4.07	4	5	6	1.007
	300	1.0000	0.0002	0.0137	1.001	1.084	1.000	0.934	4.07	4	5	6	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0021	1.000	1.011	1.000	0.990	4.01	4	4	6	1.001
	200	1.0000	0.0001	0.0032	1.000	1.021	1.000	0.985	4.02	4	4	6	1.002
	300	1.0000	0.0000	0.0025	1.000	1.019	1.000	0.988	4.01	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0205	1.001	1.071	1.000	0.905	4.11	4	5	7	1.000
	200	1.0000	0.0006	0.0244	1.001	1.091	1.000	0.888	4.13	4	5	6	1.002
	300	1.0000	0.0004	0.0242	1.001	1.093	1.000	0.886	4.13	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0104	1.001	1.042	1.000	0.951	4.05	4	4	6	1.000
	200	1.0000	0.0003	0.0121	1.000	1.045	1.000	0.941	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0126	1.001	1.049	1.000	0.940	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0020	1.000	1.010	1.000	0.991	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0028	1.000	1.013	1.000	0.986	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0024	1.000	1.017	1.000	0.988	4.01	4	4	5	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0528	0.4623	1.015	1.601	1.000	0.099	9.06	4	18	32	-
	200	1.0000	0.0340	0.5092	1.017	1.682	1.000	0.085	10.67	4	22	40	-
	300	1.0000	0.0255	0.5347	1.019	1.767	1.000	0.076	11.54	4	24.5	57	-
Adaptive Lasso	100	0.9995	0.0021	0.0255	1.008	2.103	0.998	0.910	4.20	4	5	17	-
	200	0.9994	0.0033	0.0552	1.010	2.367	0.998	0.851	4.64	4	6.5	32	-
	300	0.9994	0.0034	0.0790	1.012	2.532	0.998	0.801	5.01	4	12	48	-
Sica	100	0.9713	0.0037	0.0598	1.013	4.225	0.891	0.666	4.24	3	6	13	-
	200	0.9555	0.0014	0.0462	1.017	4.917	0.825	0.652	4.09	3	6	11	-
	300	0.9466	0.0010	0.0488	1.020	5.669	0.795	0.624	4.07	3	6	11	-
Hard thresholding	100	0.9781	0.0007	0.0115	1.008	4.568	0.932	0.887	3.98	3	4	9	-
	200	0.9686	0.0003	0.0088	1.011	5.324	0.903	0.867	3.92	3	4	9	-
	300	0.9711	0.0002	0.0086	1.011	5.373	0.914	0.878	3.93	3	4	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3323	0.8861	1.038	3.611	1.000	0.000	35.90	28	45	55	-
	200	1.0000	0.3315	0.9415	1.073	6.059	1.000	0.000	68.98	57	78	88	-
	300	1.0000	0.2836	0.9544	1.088	7.072	1.000	0.000	87.94	80	96	103	-
$v = 1$	100	1.0000	0.1506	0.7710	1.083	8.324	1.000	0.000	18.46	12	26	37	-
	200	1.0000	0.1551	0.8789	1.152	14.186	1.000	0.000	34.40	24	47	62	-
	300	1.0000	0.1650	0.9215	1.218	20.245	1.000	0.000	52.83	38	71	112	-

Notes: See notes to Table 1.

Table 3: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0215	1.001	1.107	1.000	0.899	4.11	4	5	6	1.011
	200	1.0000	0.0006	0.0219	1.001	1.114	1.000	0.897	4.11	4	5	6	1.008
	300	1.0000	0.0004	0.0235	1.001	1.128	1.000	0.891	4.12	4	5	7	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0117	1.000	1.068	1.000	0.943	4.06	4	5	6	1.007
	200	1.0000	0.0003	0.0119	1.000	1.076	1.000	0.942	4.06	4	5	6	1.006
	300	1.0000	0.0002	0.0121	1.000	1.063	1.000	0.941	4.06	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0026	1.000	1.025	1.000	0.987	4.01	4	4	5	1.003
	200	1.0000	0.0001	0.0026	1.000	1.033	1.000	0.988	4.01	4	4	6	1.002
	300	1.0000	0.0001	0.0031	1.000	1.019	1.000	0.985	4.02	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0198	1.001	1.078	1.000	0.907	4.10	4	5	6	1.003
	200	1.0000	0.0005	0.0208	1.000	1.091	1.000	0.902	4.11	4	5	6	1.002
	300	1.0000	0.0004	0.0224	1.000	1.103	1.000	0.895	4.12	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0107	1.000	1.047	1.000	0.948	4.05	4	5	6	1.002
	200	1.0000	0.0003	0.0111	1.000	1.059	1.000	0.946	4.06	4	5	6	1.002
	300	1.0000	0.0002	0.0117	1.000	1.053	1.000	0.943	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0021	1.000	1.011	1.000	0.990	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0024	1.000	1.026	1.000	0.989	4.01	4	4	6	1.001
	300	1.0000	0.0001	0.0030	1.000	1.015	1.000	0.986	4.02	4	4	6	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0531	0.4510	1.008	1.614	1.000	0.127	9.10	4	18	31	-
	200	1.0000	0.0330	0.5000	1.011	1.693	1.000	0.085	10.47	4	22	52	-
	300	1.0000	0.0246	0.5196	1.011	1.780	1.000	0.090	11.27	4	26	60	-
Adaptive Lasso	100	1.0000	0.0021	0.0197	1.004	1.789	1.000	0.951	4.20	4	4	25	-
	200	1.0000	0.0037	0.0540	1.006	2.077	1.000	0.906	4.73	4	11	32	
	300	1.0000	0.0041	0.0791	1.007	2.468	1.000	0.868	5.20	4	16	41	
Sica	100	0.9983	0.0021	0.0343	1.002	2.125	0.993	0.858	4.19	4	5	9	-
	200	0.9961	0.0006	0.0227	1.002	2.518	0.985	0.889	4.11	4	5	8	-
	300	0.9965	0.0004	0.0208	1.003	2.587	0.986	0.900	4.10	4	5	9	-
Hard thresholding	100	0.9981	0.0004	0.0067	1.001	2.053	0.993	0.964	4.03	4	4	12	-
	200	0.9976	0.0002	0.0070	1.001	2.495	0.992	0.964	4.03	4	4	9	-
	300	0.9973	0.0001	0.0042	1.001	2.767	0.991	0.971	4.01	4	4	7	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3336	0.8866	1.021	3.607	1.000	0.000	36.02	28	45	55	-
	200	1.0000	0.3309	0.9413	1.044	6.037	1.000	0.000	68.85	57	79	87	-
	300	1.0000	0.2933	0.9558	1.054	7.451	1.000	0.000	90.83	83	99	107	-
$v = 1$	100	1.0000	0.1496	0.7703	1.049	8.537	1.000	0.000	18.36	12	26	36	-
	200	1.0000	0.1492	0.8752	1.094	14.409	1.000	0.000	33.23	24	44	57	-
	300	1.0000	0.1514	0.9156	1.134	21.105	1.000	0.000	48.81	36	63.5	85	-

Notes: See notes to Table 1.

Table 4: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9985	0.0015	0.0277	1.005	1.183	0.995	0.868	4.14	4	5	7	1.012
	200	0.9983	0.0009	0.0332	1.007	1.216	0.993	0.839	4.16	4	5	8	1.014
	300	0.9971	0.0006	0.0345	1.007	1.205	0.989	0.828	4.17	4	5	7	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9975	0.0008	0.0150	1.003	1.115	0.991	0.922	4.07	4	5	7	1.006
	200	0.9969	0.0004	0.0165	1.004	1.127	0.988	0.912	4.07	4	5	6	1.008
	300	0.9950	0.0003	0.0202	1.004	1.124	0.981	0.886	4.08	4	5	7	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9923	0.0002	0.0031	1.001	1.051	0.973	0.958	3.99	4	4	7	1.003
	200	0.9898	0.0001	0.0043	1.002	1.073	0.964	0.943	3.98	4	4	5	1.002
	300	0.9871	0.0001	0.0052	1.002	1.057	0.953	0.930	3.97	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9985	0.0014	0.0258	1.005	1.143	0.995	0.876	4.13	4	5	7	1.001
	200	0.9983	0.0008	0.0306	1.006	1.171	0.993	0.850	4.15	4	5	8	1.000
	300	0.9971	0.0006	0.0329	1.007	1.177	0.989	0.836	4.16	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9975	0.0007	0.0140	1.003	1.087	0.991	0.926	4.06	4	5	7	1.000
	200	0.9969	0.0004	0.0149	1.003	1.097	0.988	0.917	4.06	4	5	6	1.000
	300	0.9950	0.0003	0.0195	1.004	1.107	0.981	0.889	4.08	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9923	0.0001	0.0026	1.001	1.038	0.973	0.961	3.98	4	4	7	1.000
	200	0.9898	0.0001	0.0039	1.001	1.060	0.964	0.944	3.98	4	4	5	1.000
	300	0.9871	0.0001	0.0050	1.002	1.053	0.953	0.931	3.97	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.9588	0.0538	0.4620	1.043	1.493	0.842	0.088	9.00	4	19	46	-
	200	0.9539	0.0395	0.5473	1.051	1.636	0.825	0.062	11.56	4	26	57	-
	300	0.9499	0.0345	0.6028	1.057	1.745	0.810	0.042	14.02	4	32	71	-
Adaptive Lasso	100	0.7643	0.0099	0.1414	1.052	2.685	0.286	0.122	4.01	2	8	37	-
	200	0.7768	0.0096	0.2168	1.059	2.923	0.335	0.104	4.98	2	12	46	-
	300	0.7788	0.0101	0.2847	1.069	3.174	0.337	0.073	6.11	2	16	50	-
Sica	100	0.4040	0.0047	0.1052	1.122	6.108	0.002	0.000	2.07	1	5	14	-
	200	0.3714	0.0020	0.0966	1.133	6.409	0.000	0.000	1.87	1	4	16	-
	300	0.3490	0.0012	0.0949	1.140	6.563	0.000	0.000	1.75	1	4	12	-
Hard thresholding	100	0.3718	0.0021	0.0495	1.125	6.323	0.003	0.001	1.69	1	4	11	-
	200	0.3494	0.0012	0.0560	1.134	6.570	0.003	0.000	1.64	1	4	14	-
	300	0.3376	0.0010	0.0659	1.140	6.648	0.001	0.000	1.64	1	4	15	-
Boosting methods													
$v = 0.1$	100	0.9788	0.3444	0.8913	1.127	3.967	0.917	0.000	36.98	28	47	55	-
	200	0.9766	0.3127	0.9398	1.200	5.566	0.909	0.000	65.20	58	72	80	-
	300	0.9731	0.2429	0.9485	1.202	5.472	0.896	0.000	75.80	69	84	96	-
$v = 1$	100	0.7643	0.1756	0.8342	1.261	9.426	0.251	0.000	19.92	12	31	52	-
	200	0.7096	0.2113	0.9313	1.434	15.071	0.176	0.000	44.25	27	69	114	-
	300	0.6754	0.2274	0.9596	1.830	>100	0.125	0.000	70.03	45	100	131	-

Notes: See notes to Table 1.

Table 5: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0250	1.001	1.141	1.000	0.884	4.13	4	5	6	1.007
	200	1.0000	0.0006	0.0239	1.002	1.160	1.000	0.886	4.12	4	5	7	1.006
	300	1.0000	0.0004	0.0236	1.002	1.149	1.000	0.890	4.12	4	5	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0133	1.001	1.083	1.000	0.937	4.07	4	5	6	1.005
	200	1.0000	0.0003	0.0124	1.001	1.086	1.000	0.940	4.06	4	5	7	1.002
	300	1.0000	0.0002	0.0129	1.001	1.087	1.000	0.939	4.07	4	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0028	1.000	1.021	1.000	0.987	4.01	4	4	6	1.002
	200	1.0000	0.0001	0.0020	1.000	1.022	1.000	0.990	4.01	4	4	5	1.002
	300	1.0000	0.0000	0.0022	1.000	1.020	1.000	0.989	4.01	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0238	1.001	1.122	1.000	0.889	4.12	4	5	6	1.001
	200	1.0000	0.0006	0.0228	1.001	1.134	1.000	0.891	4.12	4	5	7	1.001
	300	1.0000	0.0004	0.0231	1.001	1.141	1.000	0.893	4.12	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0124	1.001	1.068	1.000	0.941	4.06	4	5	6	1.000
	200	1.0000	0.0003	0.0121	1.001	1.079	1.000	0.942	4.06	4	5	7	1.000
	300	1.0000	0.0002	0.0125	1.001	1.080	1.000	0.941	4.06	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0024	1.000	1.016	1.000	0.988	4.01	4	4	5	1.000
	200	1.0000	0.0000	0.0017	1.000	1.014	1.000	0.992	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0022	1.000	1.020	1.000	0.989	4.01	4	4	5	1.000
Penalised regression methods													
Lasso	100	0.9998	0.0556	0.4730	1.014	1.531	0.999	0.085	9.33	4	19	33	-
	200	0.9995	0.0351	0.5234	1.016	1.697	0.998	0.072	10.87	4	22.5	51	-
	300	0.9996	0.0261	0.5458	1.018	1.680	0.999	0.070	11.72	4	24	54	-
Adaptive Lasso	100	0.9783	0.0038	0.0569	1.013	2.639	0.916	0.719	4.28	3	6	21	-
	200	0.9789	0.0039	0.0956	1.013	2.774	0.917	0.639	4.68	3	7	46	-
	300	0.9781	0.0033	0.1152	1.014	2.765	0.914	0.594	4.90	3	8	33	-
Sica	100	0.7600	0.0065	0.1068	1.039	6.849	0.265	0.092	3.67	2	7	23	-
	200	0.6976	0.0023	0.0820	1.048	8.399	0.134	0.044	3.24	2	6	13	-
	300	0.6600	0.0012	0.0684	1.054	8.693	0.074	0.030	2.98	2	5	13	-
Hard thresholding	100	0.7793	0.0015	0.0253	1.036	7.425	0.428	0.344	3.26	2	5	15	-
	200	0.7515	0.0006	0.0205	1.039	8.293	0.371	0.310	3.12	2	5	8	-
	300	0.7343	0.0003	0.0180	1.041	8.223	0.331	0.276	3.03	2	5	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3318	0.8859	1.038	3.585	1.000	0.000	35.85	27	45	55	-
	200	1.0000	0.3320	0.9415	1.074	6.431	1.000	0.000	69.07	57	79	86	-
	300	0.9998	0.2855	0.9547	1.089	6.955	0.999	0.000	88.51	81	96	103	-
$v = 1$	100	0.9965	0.1493	0.7702	1.083	8.211	0.986	0.000	18.32	12	26	38	-
	200	0.9898	0.1563	0.8809	1.156	15.212	0.959	0.000	34.60	24	47	69	-
	300	0.9803	0.1648	0.9229	1.223	20.281	0.921	0.000	52.69	38	71	110	-

Notes: See notes to Table 1.

Table 6: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0220	1.001	1.136	1.000	0.898	4.11	4	5	7	1.009
	200	1.0000	0.0006	0.0231	1.001	1.144	1.000	0.894	4.12	4	5	8	1.007
	300	1.0000	0.0003	0.0203	1.001	1.161	1.000	0.903	4.10	4	5	6	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0110	1.000	1.085	1.000	0.948	4.06	4	5	6	1.003
	200	1.0000	0.0003	0.0107	1.001	1.077	1.000	0.948	4.05	4	5	6	1.004
	300	1.0000	0.0002	0.0105	1.001	1.106	1.000	0.948	4.05	4	5	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0028	1.000	1.027	1.000	0.987	4.01	4	4	6	1.001
	200	1.0000	0.0001	0.0022	1.000	1.023	1.000	0.989	4.01	4	4	5	1.002
	300	1.0000	0.0000	0.0024	1.000	1.039	1.000	0.988	4.01	4	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0203	1.001	1.109	1.000	0.907	4.11	4	5	7	1.000
	200	1.0000	0.0006	0.0219	1.001	1.118	1.000	0.900	4.11	4	5	8	1.001
	300	1.0000	0.0003	0.0194	1.001	1.141	1.000	0.907	4.10	4	5	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0104	1.000	1.074	1.000	0.951	4.05	4	4	6	1.000
	200	1.0000	0.0003	0.0101	1.000	1.062	1.000	0.951	4.05	4	4	6	1.001
	300	1.0000	0.0002	0.0100	1.001	1.093	1.000	0.951	4.05	4	4	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0026	1.000	1.022	1.000	0.988	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0020	1.000	1.019	1.000	0.990	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0022	1.000	1.032	1.000	0.989	4.01	4	4	5	1.001
					Penalised regression methods								
Lasso	100	1.0000	0.0558	0.4663	1.009	1.564	1.000	0.106	9.36	4	18	32	-
	200	1.0000	0.0329	0.5055	1.009	1.621	1.000	0.089	10.45	4	22	44	-
	300	1.0000	0.0250	0.5297	1.011	1.722	1.000	0.073	11.40	4	25	43	-
Adaptive Lasso	100	0.9979	0.0031	0.0420	1.006	2.234	0.992	0.844	4.29	4	6	22	-
	200	0.9983	0.0026	0.0586	1.006	2.325	0.993	0.808	4.50	4	6	34	-
	300	0.9978	0.0029	0.0782	1.007	2.638	0.991	0.763	4.85	4	7	35	-
Sica	100	0.9233	0.0053	0.0842	1.014	5.260	0.709	0.431	4.20	3	6	15	-
	200	0.8886	0.0020	0.0678	1.017	6.101	0.588	0.381	3.94	3	6	12	-
	300	0.8664	0.0012	0.0621	1.020	7.112	0.517	0.339	3.82	2	6	13	-
Hard thresholding	100	0.9374	0.0010	0.0166	1.010	5.674	0.809	0.741	3.84	2	5	9	-
	200	0.9283	0.0004	0.0130	1.011	5.828	0.782	0.728	3.78	2	5	9	-
	300	0.9185	0.0002	0.0103	1.013	6.759	0.761	0.718	3.73	2	4	9	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3292	0.8852	1.023	3.604	1.000	0.000	35.60	27	45	56	-
	200	1.0000	0.3319	0.9414	1.044	5.986	1.000	0.000	69.05	57	80	91	-
	300	1.0000	0.2962	0.9562	1.056	7.407	1.000	0.000	91.68	84	100	106	-
$v = 1$	100	1.0000	0.1445	0.7637	1.051	8.413	1.000	0.000	17.87	12	25	39	-
	200	0.9999	0.1476	0.8738	1.094	14.159	1.000	0.000	32.93	23	44	61	-
	300	1.0000	0.1514	0.9156	1.136	20.676	1.000	0.000	48.80	37	64	90	-

Notes: See notes to Table 1.

Table 7: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9196	0.0014	0.0280	1.007	1.153	0.776	0.678	3.81	2	5	7	1.007
	200	0.8879	0.0009	0.0416	1.012	1.314	0.709	0.607	3.73	2	5	7	1.009
	300	0.8580	0.0006	0.0379	1.013	1.371	0.644	0.548	3.60	1	5	7	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8895	0.0007	0.0146	1.006	1.108	0.704	0.658	3.62	2	4	6	1.002
	200	0.8519	0.0005	0.0229	1.010	1.262	0.635	0.586	3.50	2	4.5	6	1.004
	300	0.8188	0.0003	0.0213	1.013	1.354	0.566	0.513	3.36	1	5	7	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8008	0.0002	0.0051	1.011	1.233	0.538	0.526	3.22	1	4	6	1.001
	200	0.7508	0.0001	0.0085	1.016	1.393	0.466	0.457	3.03	1	4	5	1.002
	300	0.7114	0.0001	0.0079	1.022	1.525	0.416	0.406	2.87	0	4	5	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9196	0.0013	0.0267	1.007	1.128	0.776	0.682	3.80	2	5	7	1.000
	200	0.8879	0.0009	0.0401	1.011	1.283	0.709	0.612	3.72	2	5	7	1.000
	300	0.8579	0.0005	0.0371	1.013	1.357	0.644	0.551	3.59	1	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8895	0.0007	0.0142	1.006	1.100	0.704	0.659	3.62	2	4	6	1.000
	200	0.8519	0.0005	0.0220	1.010	1.248	0.635	0.588	3.50	2	4	6	1.000
	300	0.8186	0.0003	0.0209	1.013	1.343	0.566	0.516	3.36	1	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8008	0.0002	0.0050	1.011	1.229	0.538	0.526	3.22	1	4	6	1.000
	200	0.7508	0.0001	0.0083	1.016	1.391	0.466	0.457	3.03	1	4	5	1.001
	300	0.7114	0.0001	0.0073	1.022	1.512	0.416	0.406	2.87	0	4	5	1.001
Penalised regression methods													
Lasso	100	0.8129	0.0510	0.4851	1.035	1.140	0.408	0.044	8.15	3	17	40	-
	200	0.7905	0.0392	0.5762	1.043	1.314	0.368	0.026	10.84	3	25.5	59	-
	300	0.7846	0.0330	0.6335	1.052	1.470	0.346	0.015	12.91	3	31	62	-
Adaptive Lasso	100	0.5670	0.0135	0.2205	1.041	2.042	0.058	0.013	3.56	1	8	29	-
	200	0.5605	0.0134	0.3277	1.056	2.515	0.065	0.008	4.87	1	14	41	-
	300	0.5705	0.0123	0.3984	1.068	2.914	0.059	0.004	5.92	1	17	52	-
Sica	100	0.2861	0.0049	0.1386	1.076	3.809	0.000	0.000	1.61	1	4	13	-
	200	0.2653	0.0025	0.1456	1.083	3.988	0.000	0.000	1.55	1	4	14	-
	300	0.2596	0.0014	0.1357	1.085	4.148	0.000	0.000	1.44	1	3	14	-
Hard thresholding	100	0.2716	0.0034	0.1084	1.073	3.712	0.000	0.000	1.42	1	3	11	-
	200	0.2620	0.0019	0.1268	1.079	3.843	0.000	0.000	1.43	1	3	12	-
	300	0.2573	0.0013	0.1298	1.084	4.128	0.000	0.000	1.41	1	3	11	-
Boosting methods													
$v = 0.1$	100	0.8964	0.3448	0.8999	1.121	3.745	0.622	0.000	36.69	28	47	54	-
	200	0.8774	0.3147	0.9460	1.198	5.347	0.571	0.000	65.19	58	72	78	-
	300	0.8668	0.2450	0.9542	1.205	5.601	0.545	0.000	75.99	69	83	90	-
$v = 1$	100	0.5766	0.1714	0.8687	1.235	8.069	0.037	0.000	18.77	11	30	51	-
	200	0.5539	0.2095	0.9456	1.404	12.918	0.034	0.000	43.28	26	67	97	-
	300	0.5440	0.2296	0.9676	1.571	87.655	0.040	0.000	70.15	44	100.5	133	-

Notes: See notes to Table 1.

Table 8: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0246	1.002	1.179	1.000	0.886	4.13	4	5	7	1.003
	200	1.0000	0.0006	0.0241	1.002	1.195	1.000	0.885	4.12	4	5	7	1.005
	300	1.0000	0.0004	0.0224	1.002	1.196	1.000	0.893	4.11	4	5	6	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0135	1.001	1.115	1.000	0.935	4.07	4	5	7	1.002
	200	1.0000	0.0003	0.0126	1.001	1.121	1.000	0.938	4.06	4	5	7	1.002
	300	1.0000	0.0002	0.0120	1.001	1.117	1.000	0.943	4.06	4	5	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0028	1.000	1.032	1.000	0.986	4.01	4	4	5	1.000
	200	0.9999	0.0001	0.0021	1.000	1.030	1.000	0.989	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0022	1.000	1.035	1.000	0.989	4.01	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0241	1.002	1.174	1.000	0.889	4.13	4	5	7	1.000
	200	1.0000	0.0006	0.0233	1.002	1.180	1.000	0.889	4.12	4	5	7	1.001
	300	1.0000	0.0004	0.0217	1.002	1.181	1.000	0.895	4.11	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0132	1.001	1.109	1.000	0.936	4.07	4	5	7	1.000
	200	1.0000	0.0003	0.0122	1.001	1.113	1.000	0.940	4.06	4	5	7	1.000
	300	1.0000	0.0002	0.0117	1.001	1.111	1.000	0.944	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0028	1.000	1.032	1.000	0.986	4.01	4	4	5	1.000
	200	0.9999	0.0001	0.0020	1.000	1.029	1.000	0.990	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0020	1.000	1.031	1.000	0.990	4.01	4	4	5	1.000
Penalised regression methods													
Lasso	100	0.9843	0.0537	0.4628	1.014	1.480	0.938	0.089	9.09	4	18	31	-
	200	0.9794	0.0342	0.5153	1.017	1.591	0.918	0.068	10.62	4	23	55	-
	300	0.9785	0.0259	0.5421	1.018	1.590	0.917	0.067	11.59	4	25	59	-
Adaptive Lasso	100	0.8440	0.0075	0.1130	1.016	2.686	0.478	0.260	4.10	2	7	18	-
	200	0.8469	0.0065	0.1609	1.018	2.841	0.481	0.224	4.65	2	10	35	-
	300	0.8548	0.0057	0.2013	1.019	2.872	0.502	0.191	5.10	2	11	38	-
Sica	100	0.4898	0.0055	0.1083	1.044	6.492	0.007	0.001	2.48	1	5	21	-
	200	0.4325	0.0018	0.0772	1.048	7.085	0.001	0.001	2.07	1	5	19	-
	300	0.4031	0.0009	0.0610	1.053	7.298	0.000	0.000	1.87	1	4	10	-
Hard thresholding	100	0.4680	0.0018	0.0370	1.045	6.795	0.029	0.011	2.04	1	4	9	-
	200	0.4125	0.0008	0.0332	1.051	7.406	0.009	0.002	1.80	1	4	17	-
	300	0.3801	0.0004	0.0275	1.056	7.646	0.006	0.003	1.65	1	3	15	-
Boosting methods													
$v = 0.1$	100	0.9938	0.3314	0.8864	1.037	3.578	0.975	0.000	35.79	27	44	53	-
	200	0.9911	0.3325	0.9421	1.074	6.184	0.965	0.000	69.13	57	79	88	-
	300	0.9909	0.2880	0.9555	1.090	6.971	0.964	0.000	89.22	82	97	107	-
$v = 1$	100	0.8981	0.1523	0.7914	1.083	8.599	0.605	0.000	18.21	12	26	36	-
	200	0.8625	0.1562	0.8949	1.157	14.851	0.491	0.000	34.06	24	46	64	-
	300	0.8428	0.1666	0.9339	1.228	20.559	0.436	0.000	52.68	38	71	103	-

Notes: See notes to Table 1.

Table 9: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0233	1.001	1.192	1.000	0.892	4.12	4	5	7	1.005
	200	1.0000	0.0006	0.0221	1.001	1.198	1.000	0.897	4.11	4	5	7	1.004
	300	1.0000	0.0004	0.0220	1.001	1.237	1.000	0.897	4.11	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0111	1.001	1.118	1.000	0.946	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0119	1.001	1.124	1.000	0.944	4.06	4	5	7	1.003
	300	1.0000	0.0002	0.0102	1.001	1.129	1.000	0.952	4.05	4	4	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0022	1.000	1.040	1.000	0.989	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0029	1.000	1.040	1.000	0.986	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0025	1.000	1.037	1.000	0.988	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0224	1.001	1.178	1.000	0.895	4.12	4	5	7	1.000
	200	1.0000	0.0006	0.0213	1.001	1.183	1.000	0.901	4.11	4	5	7	1.000
	300	1.0000	0.0004	0.0217	1.001	1.223	1.000	0.898	4.11	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0110	1.001	1.116	1.000	0.947	4.06	4	5	6	1.000
	200	1.0000	0.0003	0.0113	1.001	1.114	1.000	0.947	4.06	4	5	7	1.000
	300	1.0000	0.0002	0.0099	1.001	1.119	1.000	0.953	4.05	4	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0021	1.000	1.037	1.000	0.990	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0029	1.000	1.040	1.000	0.986	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0024	1.000	1.035	1.000	0.989	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.9991	0.0558	0.4749	1.008	1.550	0.997	0.093	9.35	4	18	39	-
	200	0.9979	0.0330	0.5094	1.009	1.585	0.992	0.078	10.47	4	21	43	-
	300	0.9978	0.0255	0.5413	1.011	1.702	0.991	0.065	11.53	4	24	48	-
Adaptive Lasso	100	0.9483	0.0052	0.0767	1.008	2.760	0.806	0.569	4.29	3	7	17	-
	200	0.9469	0.0047	0.1184	1.009	2.763	0.796	0.484	4.71	3	8	35	-
	300	0.9504	0.0041	0.1472	1.009	2.913	0.809	0.450	5.00	3	10	39	-
Sica	100	0.6623	0.0070	0.1170	1.025	7.022	0.107	0.016	3.32	2	7	14	-
	200	0.5890	0.0021	0.0836	1.031	7.760	0.026	0.006	2.76	1	5	12	-
	300	0.5568	0.0011	0.0698	1.033	8.954	0.013	0.002	2.57	1	5	14	-
Hard thresholding	100	0.6751	0.0017	0.0304	1.023	7.355	0.238	0.163	2.86	1	5	9	-
	200	0.6231	0.0006	0.0233	1.027	7.693	0.152	0.101	2.61	1	5	9	-
	300	0.6116	0.0004	0.0226	1.028	8.545	0.135	0.092	2.56	1	4.5	11	-
Boosting methods													
$v = 0.1$	100	0.9999	0.3295	0.8853	1.021	3.620	1.000	0.000	35.63	27	45	54	-
	200	0.9994	0.3311	0.9413	1.043	5.919	0.998	0.000	68.90	57	80	90	-
	300	0.9994	0.2981	0.9565	1.056	7.695	0.998	0.000	92.24	84	100	109	-
$v = 1$	100	0.9864	0.1468	0.7692	1.048	8.461	0.946	0.000	18.03	12	25	34	-
	200	0.9730	0.1469	0.8767	1.093	14.116	0.892	0.000	32.69	24	44	56	-
	300	0.9663	0.1519	0.9185	1.137	21.730	0.865	0.000	48.84	36	64	85	-

Notes: See notes to Table 1.

Table 10: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0025	0.0441	1.005	1.151	1.000	0.806	4.24	4	5	7	1.009
	200	0.9999	0.0014	0.0523	1.007	1.203	1.000	0.770	4.28	4	5	8	1.010
	300	1.0000	0.0010	0.0521	1.008	1.205	1.000	0.778	4.29	4	5	10	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0250	1.003	1.092	1.000	0.885	4.13	4	5	7	1.005
	200	0.9999	0.0008	0.0299	1.004	1.132	1.000	0.861	4.15	4	5	7	1.006
	300	1.0000	0.0005	0.0298	1.005	1.132	1.000	0.866	4.16	4	5	10	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0004	0.0078	1.001	1.037	1.000	0.962	4.04	4	4	7	1.004
	200	0.9999	0.0003	0.0096	1.002	1.049	1.000	0.955	4.05	4	4	6	1.002
	300	0.9999	0.0001	0.0080	1.002	1.050	1.000	0.961	4.04	4	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0024	0.0428	1.005	1.125	1.000	0.811	4.23	4	5	7	1.002
	200	0.9999	0.0014	0.0504	1.006	1.166	1.000	0.778	4.27	4	5	8	1.001
	300	1.0000	0.0009	0.0510	1.008	1.172	1.000	0.781	4.28	4	5	10	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0244	1.003	1.085	1.000	0.888	4.13	4	5	7	1.002
	200	0.9999	0.0008	0.0287	1.004	1.104	1.000	0.867	4.15	4	5	7	1.001
	300	1.0000	0.0005	0.0290	1.005	1.114	1.000	0.869	4.15	4	5	10	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0072	1.001	1.026	1.000	0.965	4.04	4	4	7	1.001
	200	0.9999	0.0002	0.0091	1.001	1.044	1.000	0.957	4.05	4	4	6	1.000
	300	0.9999	0.0001	0.0076	1.002	1.041	1.000	0.963	4.04	4	4	6	1.001
						Penalised regression methods							
Lasso	100	0.9985	0.0568	0.4788	1.043	1.628	0.994	0.092	9.44	4	18	32	-
	200	0.9979	0.0437	0.5744	1.055	1.824	0.992	0.059	12.55	4	26	60	-
	300	0.9970	0.0364	0.6311	1.060	1.905	0.988	0.044	14.75	5	30	60	-
Adaptive Lasso	100	0.9314	0.0058	0.0819	1.051	2.998	0.743	0.514	4.28	3	7	22	-
	200	0.9363	0.0067	0.1505	1.057	3.115	0.765	0.408	5.06	3	9	46	-
	300	0.9403	0.0063	0.1917	1.061	3.199	0.781	0.367	5.62	3	11	44	-
Sica	100	0.6021	0.0064	0.1190	1.163	8.373	0.060	0.019	3.03	1	6	14	-
	200	0.5528	0.0029	0.1177	1.189	9.181	0.018	0.005	2.77	1	6	13	-
	300	0.5183	0.0018	0.1126	1.206	9.793	0.010	0.005	2.60	1	5	14	-
Hard thresholding	100	0.6193	0.0017	0.0319	1.149	8.637	0.161	0.119	2.64	1	5	10	-
	200	0.5885	0.0014	0.0503	1.171	9.183	0.130	0.081	2.64	1	5	15	-
	300	0.5628	0.0010	0.0558	1.186	9.468	0.088	0.057	2.55	1	5	13	-
						Boosting methods							
$v = 0.1$	100	0.9993	0.3198	0.8807	1.131	3.843	0.997	0.000	34.70	25	46	55	-
	200	0.9983	0.2813	0.9319	1.207	5.227	0.993	0.000	59.14	50	67	74	-
	300	0.9985	0.2207	0.9421	1.212	5.260	0.994	0.000	69.31	62	77	87	-
$v = 1$	100	0.9123	0.1806	0.8081	1.307	10.828	0.667	0.000	20.99	12	34	56	-
	200	0.8465	0.2268	0.9201	1.543	19.256	0.463	0.000	47.85	24	81	122	-
	300	0.8103	0.2740	0.9577	2.173	>100	0.371	0.000	84.35	43	125	161	-

Notes: See notes to Table 1.

Table 11: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0019	0.0355	1.001	1.111	1.000	0.836	4.18	4	5	6	1.008
	200	1.0000	0.0010	0.0375	1.002	1.148	1.000	0.829	4.20	4	5	7	1.007
	300	1.0000	0.0008	0.0439	1.002	1.180	1.000	0.802	4.23	4	5	8	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0196	1.001	1.061	1.000	0.906	4.10	4	5	6	1.005
	200	1.0000	0.0006	0.0220	1.001	1.088	1.000	0.897	4.11	4	5	6	1.003
	300	1.0000	0.0004	0.0232	1.001	1.101	1.000	0.892	4.12	4	5	7	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0044	1.000	1.013	1.000	0.979	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0049	1.000	1.026	1.000	0.976	4.02	4	4	6	1.001
	300	1.0000	0.0001	0.0052	1.000	1.026	1.000	0.975	4.03	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0018	0.0341	1.001	1.085	1.000	0.843	4.18	4	5	6	1.001
	200	1.0000	0.0010	0.0362	1.002	1.125	1.000	0.834	4.19	4	5	7	1.001
	300	1.0000	0.0008	0.0422	1.002	1.135	1.000	0.809	4.22	4	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0188	1.001	1.046	1.000	0.910	4.10	4	5	6	1.001
	200	1.0000	0.0006	0.0215	1.001	1.079	1.000	0.899	4.11	4	5	6	1.001
	300	1.0000	0.0004	0.0222	1.001	1.079	1.000	0.897	4.12	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0042	1.000	1.009	1.000	0.980	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0048	1.000	1.023	1.000	0.977	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0051	1.000	1.023	1.000	0.975	4.03	4	4	6	1.001
Penalised regression methods													
Lasso	100	1.0000	0.0550	0.4729	1.014	1.580	1.000	0.086	9.28	4	18	35	-
	200	1.0000	0.0343	0.5152	1.017	1.691	1.000	0.077	10.72	4	23	49	-
	300	1.0000	0.0278	0.5580	1.018	1.835	1.000	0.067	12.24	4	27	62	-
Adaptive Lasso	100	1.0000	0.0027	0.0287	1.009	2.092	1.000	0.911	4.26	4	5	21	-
	200	0.9994	0.0035	0.0570	1.011	2.387	0.998	0.853	4.69	4	7	26	-
	300	0.9999	0.0039	0.0845	1.011	2.636	1.000	0.797	5.15	4	13	39	-
Sica	100	0.9670	0.0036	0.0580	1.015	4.400	0.872	0.659	4.21	3	6	10	-
	200	0.9479	0.0015	0.0532	1.020	5.689	0.804	0.613	4.09	3	6	9	-
	300	0.9381	0.0009	0.0473	1.023	6.332	0.769	0.598	4.01	3	6	10	-
Hard thresholding	100	0.9674	0.0006	0.0104	1.012	5.648	0.904	0.859	3.93	3	4	8	-
	200	0.9625	0.0003	0.0095	1.014	5.890	0.889	0.850	3.90	3	4	11	-
	300	0.9665	0.0002	0.0089	1.012	5.632	0.897	0.859	3.91	3	4	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3224	0.8828	1.038	3.626	1.000	0.000	34.95	26	44	57	-
	200	1.0000	0.3135	0.9382	1.073	5.907	1.000	0.000	65.45	54	75	83	-
	300	1.0000	0.2674	0.9517	1.087	7.032	1.000	0.000	83.16	76	91	97	-
$v = 1$	100	1.0000	0.1491	0.7688	1.085	8.447	1.000	0.000	18.31	12	26	41	-
	200	1.0000	0.1537	0.8761	1.154	14.038	1.000	0.000	34.12	23	49	77	-
	300	1.0000	0.1630	0.9192	1.219	20.506	1.000	0.000	52.25	35	74	119	-

Notes: See notes to Table 1.

Table 12: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0020	0.0360	1.001	1.139	1.000	0.833	4.19	4	5	8	1.011
	200	1.0000	0.0009	0.0353	1.001	1.148	1.000	0.838	4.18	4	5	7	1.009
	300	1.0000	0.0006	0.0359	1.001	1.161	1.000	0.833	4.19	4	5	9	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0207	1.001	1.090	1.000	0.901	4.11	4	5	6	1.005
	200	1.0000	0.0005	0.0192	1.001	1.093	1.000	0.909	4.10	4	5	6	1.006
	300	1.0000	0.0004	0.0218	1.001	1.112	1.000	0.894	4.11	4	5	7	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0043	1.000	1.031	1.000	0.979	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0043	1.000	1.024	1.000	0.979	4.02	4	4	6	1.001
	300	1.0000	0.0001	0.0047	1.000	1.030	1.000	0.977	4.02	4	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0019	0.0344	1.001	1.112	1.000	0.841	4.18	4	5	8	1.003
	200	1.0000	0.0009	0.0338	1.001	1.115	1.000	0.845	4.18	4	5	7	1.001
	300	1.0000	0.0006	0.0349	1.001	1.129	1.000	0.838	4.18	4	5	9	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0199	1.001	1.071	1.000	0.904	4.10	4	5	6	1.001
	200	1.0000	0.0005	0.0181	1.000	1.061	1.000	0.914	4.09	4	5	6	1.000
	300	1.0000	0.0004	0.0210	1.001	1.085	1.000	0.897	4.11	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0040	1.000	1.020	1.000	0.981	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0041	1.000	1.017	1.000	0.980	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0044	1.000	1.020	1.000	0.978	4.02	4	4	5	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0528	0.4560	1.009	1.602	1.000	0.112	9.07	4	18	31	-
	200	1.0000	0.0328	0.4993	1.010	1.722	1.000	0.081	10.43	4	21	50	-
	300	1.0000	0.0256	0.5343	1.011	1.778	1.000	0.071	11.58	4	25.5	57	-
Adaptive Lasso	100	1.0000	0.0030	0.0245	1.004	1.851	1.000	0.947	4.29	4	5	24	-
	200	1.0000	0.0041	0.0610	1.006	2.132	1.000	0.891	4.80	4	11	31	-
	300	1.0000	0.0045	0.0843	1.007	2.477	1.000	0.864	5.34	4	16	40	-
Sica	100	0.9985	0.0020	0.0334	1.003	1.974	0.994	0.860	4.18	4	5	9	-
	200	0.9966	0.0008	0.0254	1.003	2.577	0.987	0.885	4.13	4	5	14	-
	300	0.9948	0.0004	0.0200	1.003	2.833	0.979	0.897	4.09	4	5	10	-
Hard thresholding	100	0.9985	0.0005	0.0076	1.001	1.968	0.995	0.965	4.04	4	4	9	-
	200	0.9968	0.0002	0.0065	1.001	2.853	0.989	0.962	4.02	4	4	7	-
	300	0.9980	0.0001	0.0061	1.001	2.029	0.993	0.967	4.03	4	4	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3248	0.8837	1.023	3.579	1.000	0.000	35.18	27	44	53	-
	200	1.0000	0.3191	0.9392	1.044	6.069	1.000	0.000	66.54	54	77	90	-
	300	1.0000	0.2810	0.9540	1.055	6.965	1.000	0.000	87.19	79	96	104	-
$v = 1$	100	1.0000	0.1483	0.7683	1.051	8.460	1.000	0.000	18.24	12	26	36	-
	200	1.0000	0.1464	0.8724	1.094	14.585	1.000	0.000	32.69	23	45	62	-
	300	1.0000	0.1482	0.9133	1.135	19.509	1.000	0.000	47.88	34	65	93	-

Notes: See notes to Table 1.

Table 13: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0022	0.0408	1.008	1.233	0.996	0.811	4.21	4	5	7	1.016
	200	0.9976	0.0013	0.0471	1.010	1.250	0.991	0.786	4.24	4	5	8	1.014
	300	0.9975	0.0008	0.0448	1.010	1.278	0.990	0.796	4.23	4	5	9	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9984	0.0012	0.0228	1.005	1.155	0.994	0.885	4.11	4	5	7	1.008
	200	0.9958	0.0007	0.0263	1.006	1.155	0.983	0.864	4.12	4	5	7	1.008
	300	0.9956	0.0004	0.0241	1.006	1.180	0.983	0.875	4.11	4	5	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9939	0.0003	0.0065	1.002	1.074	0.977	0.946	4.01	4	4	6	1.001
	200	0.9891	0.0002	0.0065	1.002	1.076	0.960	0.931	3.99	4	4	6	1.001
	300	0.9866	0.0001	0.0064	1.003	1.085	0.953	0.921	3.98	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9990	0.0021	0.0379	1.007	1.184	0.996	0.825	4.20	4	5	7	1.001
	200	0.9976	0.0012	0.0447	1.008	1.199	0.991	0.795	4.23	4	5	8	1.001
	300	0.9975	0.0008	0.0427	1.009	1.239	0.990	0.806	4.22	4	5	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9984	0.0011	0.0214	1.004	1.128	0.994	0.892	4.10	4	5	7	1.001
	200	0.9958	0.0007	0.0250	1.005	1.132	0.983	0.870	4.11	4	5	7	1.001
	300	0.9956	0.0004	0.0230	1.005	1.154	0.983	0.880	4.10	4	5	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9939	0.0003	0.0063	1.002	1.067	0.977	0.947	4.01	4	4	6	1.000
	200	0.9891	0.0002	0.0064	1.002	1.074	0.960	0.932	3.99	4	4	6	1.001
	300	0.9866	0.0001	0.0061	1.003	1.078	0.953	0.923	3.98	4	4	6	1.001
Penalised regression methods													
Lasso	100	0.9565	0.0567	0.4775	1.042	1.470	0.831	0.085	9.27	4	19	34	-
	200	0.9521	0.0410	0.5667	1.049	1.568	0.817	0.044	11.84	4	25	50	-
	300	0.9499	0.0360	0.6315	1.058	1.793	0.811	0.037	14.45	4	31	58	-
Adaptive Lasso	100	0.7583	0.0101	0.1500	1.054	2.630	0.282	0.123	4.01	2	8	18	-
	200	0.7703	0.0085	0.2171	1.059	2.739	0.316	0.093	4.75	2	10.5	34	-
	300	0.7750	0.0089	0.2919	1.070	3.063	0.316	0.073	5.74	2	14	47	-
Sica	100	0.4040	0.0047	0.1122	1.127	5.969	0.002	0.000	2.07	1	4	14	-
	200	0.3578	0.0020	0.1031	1.143	6.296	0.000	0.000	1.83	1	4	15	-
	300	0.3469	0.0014	0.1077	1.151	6.707	0.000	0.000	1.79	1	4	11	-
Hard thresholding	100	0.3763	0.0024	0.0573	1.127	6.152	0.004	0.002	1.73	1	4	12	-
	200	0.3454	0.0012	0.0640	1.138	6.278	0.003	0.001	1.62	1	4	12	-
	300	0.3323	0.0009	0.0687	1.149	6.741	0.001	0.000	1.60	1	4	15	-
Boosting methods													
$v = 0.1$	100	0.9755	0.3197	0.8828	1.132	3.838	0.904	0.000	34.59	24	46	54	-
	200	0.9743	0.2834	0.9339	1.202	5.114	0.898	0.000	59.45	50	67	73	-
	300	0.9705	0.2224	0.9441	1.213	5.431	0.888	0.000	69.72	62	77	88	-
$v = 1$	100	0.7226	0.1767	0.8395	1.287	9.591	0.181	0.000	19.85	10	33	51	-
	200	0.6883	0.2249	0.9337	1.486	15.702	0.145	0.000	46.83	23	81	124	-
	300	0.6853	0.2746	0.9644	3.416	>100	0.139	0.000	84.04	43.5	127	160	-

Notes: See notes to Table 1.

Table 14: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0301	1.002	1.170	1.000	0.864	4.16	4	5	7	1.006
	200	1.0000	0.0009	0.0326	1.002	1.212	1.000	0.852	4.17	4	5	7	1.007
	300	1.0000	0.0006	0.0348	1.002	1.201	1.000	0.840	4.18	4	5	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0172	1.001	1.106	1.000	0.920	4.09	4	5	7	1.004
	200	1.0000	0.0005	0.0175	1.001	1.131	1.000	0.917	4.09	4	5	7	1.003
	300	1.0000	0.0003	0.0185	1.001	1.130	1.000	0.912	4.10	4	5	7	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0035	1.000	1.028	1.000	0.983	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0051	1.000	1.045	1.000	0.976	4.03	4	4	6	1.001
	300	1.0000	0.0001	0.0050	1.001	1.050	1.000	0.976	4.03	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0290	1.002	1.149	1.000	0.868	4.15	4	5	7	1.000
	200	1.0000	0.0008	0.0314	1.002	1.189	1.000	0.858	4.17	4	5	7	1.001
	300	1.0000	0.0006	0.0343	1.002	1.191	1.000	0.842	4.18	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0165	1.001	1.093	1.000	0.923	4.09	4	5	7	1.000
	200	1.0000	0.0005	0.0171	1.001	1.124	1.000	0.919	4.09	4	5	7	1.001
	300	1.0000	0.0003	0.0180	1.001	1.109	1.000	0.914	4.09	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0035	1.000	1.028	1.000	0.983	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0050	1.000	1.042	1.000	0.976	4.03	4	4	6	1.000
	300	1.0000	0.0001	0.0048	1.001	1.038	1.000	0.977	4.02	4	4	6	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0563	0.4795	1.014	1.585	1.000	0.086	9.40	4	18	33	-
	200	0.9999	0.0361	0.5295	1.017	1.678	1.000	0.077	11.07	4	23	51	-
	300	0.9996	0.0284	0.5668	1.019	1.729	0.999	0.059	12.41	4	27	52	-
Adaptive Lasso	100	0.9795	0.0047	0.0641	1.013	2.676	0.919	0.708	4.37	3	6	27	-
	200	0.9791	0.0040	0.0984	1.013	2.719	0.918	0.624	4.69	3	8	30	-
	300	0.9778	0.0036	0.1289	1.014	2.741	0.913	0.564	4.97	3	9	30	-
Sica	100	0.7501	0.0066	0.1070	1.042	7.428	0.245	0.084	3.63	2	7	17	-
	200	0.6851	0.0020	0.0749	1.051	8.465	0.111	0.053	3.13	2	6	12	-
	300	0.6493	0.0013	0.0757	1.058	9.097	0.069	0.028	2.98	2	5	12	-
Hard thresholding	100	0.7716	0.0015	0.0253	1.036	7.955	0.420	0.337	3.23	2	5	9	-
	200	0.7408	0.0005	0.0192	1.041	8.381	0.338	0.286	3.07	1	5	12	-
	300	0.7171	0.0004	0.0208	1.046	8.572	0.294	0.244	2.98	1	5	10	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3228	0.8829	1.038	3.747	1.000	0.000	34.99	26	44	54	-
	200	1.0000	0.3136	0.9382	1.075	6.121	1.000	0.000	65.47	53	76	83	-
	300	0.9998	0.2696	0.9521	1.088	6.841	0.999	0.000	83.79	76	91	101	-
$v = 1$	100	0.9946	0.1503	0.7705	1.085	8.923	0.979	0.000	18.41	12	27	38	-
	200	0.9826	0.1539	0.8791	1.161	15.101	0.931	0.000	34.10	23	48	72	-
	300	0.9674	0.1635	0.9219	1.227	20.820	0.870	0.000	52.28	35	75	113	-

Notes: See notes to Table 1.

Table 15: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0285	1.001	1.136	1.000	0.870	4.15	4	5	8	1.006
	200	1.0000	0.0010	0.0368	1.001	1.196	1.000	0.832	4.19	4	5	8	1.006
	300	1.0000	0.0005	0.0313	1.001	1.192	1.000	0.854	4.16	4	5	6	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0143	1.000	1.070	1.000	0.933	4.07	4	5	7	1.001
	200	1.0000	0.0005	0.0207	1.001	1.134	1.000	0.902	4.11	4	5	7	1.006
	300	1.0000	0.0003	0.0176	1.001	1.125	1.000	0.916	4.09	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0041	1.000	1.027	1.000	0.980	4.02	4	4	5	1.001
	200	1.0000	0.0001	0.0041	1.000	1.027	1.000	0.980	4.02	4	4	6	1.001
	300	1.0000	0.0001	0.0041	1.000	1.032	1.000	0.980	4.02	4	4	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0274	1.001	1.116	1.000	0.875	4.14	4	5	8	1.000
	200	1.0000	0.0010	0.0360	1.001	1.177	1.000	0.835	4.19	4	5	8	1.001
	300	1.0000	0.0005	0.0303	1.001	1.172	1.000	0.859	4.16	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0141	1.000	1.065	1.000	0.934	4.07	4	5	7	1.000
	200	1.0000	0.0005	0.0196	1.001	1.116	1.000	0.907	4.10	4	5	7	1.001
	300	1.0000	0.0003	0.0170	1.001	1.113	1.000	0.919	4.09	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0040	1.000	1.025	1.000	0.980	4.02	4	4	5	1.000
	200	1.0000	0.0001	0.0039	1.000	1.023	1.000	0.981	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0041	1.000	1.032	1.000	0.980	4.02	4	4	6	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0558	0.4722	1.009	1.562	1.000	0.090	9.36	4	19	46	-
	200	1.0000	0.0338	0.5170	1.010	1.642	1.000	0.074	10.62	4	22	61	-
	300	1.0000	0.0268	0.5523	1.011	1.701	1.000	0.050	11.93	4.5	26	59	-
Adaptive Lasso	100	0.9979	0.0029	0.0381	1.006	2.271	0.992	0.857	4.27	4	5	23	-
	200	0.9985	0.0029	0.0633	1.006	2.339	0.994	0.798	4.57	4	6	30	-
	300	0.9975	0.0028	0.0847	1.007	2.505	0.990	0.732	4.83	4	7	38	-
Sica	100	0.9239	0.0055	0.0865	1.014	5.208	0.714	0.449	4.23	3	7	13	-
	200	0.8813	0.0020	0.0675	1.019	6.484	0.569	0.365	3.92	3	6	13	-
	300	0.8604	0.0012	0.0627	1.021	7.097	0.497	0.328	3.79	2	6	13	-
Hard thresholding	100	0.9334	0.0009	0.0156	1.010	5.977	0.805	0.742	3.82	2	5	9	-
	200	0.9186	0.0003	0.0122	1.013	6.644	0.766	0.717	3.74	2	4	11	-
	300	0.9149	0.0002	0.0119	1.013	6.480	0.749	0.700	3.73	2	4	13	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3248	0.8836	1.022	3.626	1.000	0.000	35.18	27	44	57	-
	200	1.0000	0.3183	0.9391	1.043	5.883	1.000	0.000	66.38	55	77	83	-
	300	1.0000	0.2832	0.9543	1.054	7.010	1.000	0.000	87.84	80	96	106	-
$v = 1$	100	1.0000	0.1467	0.7656	1.050	8.469	1.000	0.000	18.09	12	26	40	-
	200	0.9998	0.1445	0.8708	1.094	14.037	0.999	0.000	32.33	23	44	59	-
	300	0.9990	0.1481	0.9132	1.135	19.545	0.996	0.000	47.84	34	66	93	-

Notes: See notes to Table 1.

Table 16: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9191	0.0018	0.0345	1.008	1.195	0.765	0.650	3.85	2	5	7	1.008
	200	0.8938	0.0010	0.0437	1.011	1.249	0.710	0.584	3.78	2	5	7	1.008
	300	0.8716	0.0007	0.0454	1.013	1.311	0.668	0.547	3.70	2	5	7	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8911	0.0010	0.0205	1.007	1.142	0.695	0.632	3.66	2	5	6	1.004
	200	0.8589	0.0006	0.0282	1.011	1.222	0.642	0.569	3.56	1	5	6	1.004
	300	0.8309	0.0004	0.0266	1.012	1.294	0.588	0.525	3.44	1	5	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7991	0.0003	0.0059	1.010	1.238	0.524	0.513	3.22	1	4	5	1.002
	200	0.7559	0.0002	0.0084	1.015	1.310	0.462	0.449	3.06	1	4	6	1.002
	300	0.7281	0.0001	0.0074	1.018	1.393	0.423	0.410	2.94	1	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9191	0.0017	0.0332	1.007	1.170	0.765	0.656	3.84	2	5	7	1.001
	200	0.8938	0.0010	0.0420	1.011	1.225	0.710	0.589	3.77	2	5	7	1.000
	300	0.8716	0.0007	0.0443	1.013	1.288	0.668	0.551	3.69	2	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8911	0.0009	0.0196	1.006	1.127	0.695	0.635	3.66	2	5	6	1.000
	200	0.8589	0.0006	0.0274	1.010	1.207	0.642	0.571	3.55	1	5	6	1.000
	300	0.8309	0.0004	0.0260	1.012	1.278	0.588	0.527	3.43	1	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7991	0.0002	0.0055	1.010	1.230	0.524	0.514	3.22	1	4	5	1.001
	200	0.7559	0.0002	0.0081	1.015	1.303	0.462	0.450	3.05	1	4	6	1.000
	300	0.7281	0.0001	0.0073	1.018	1.389	0.423	0.410	2.94	1	4	5	1.000
Penalised regression methods													
Lasso	100	0.8113	0.0533	0.5007	1.035	1.154	0.399	0.035	8.36	3	18	41	-
	200	0.7921	0.0419	0.6089	1.041	1.268	0.348	0.019	11.39	3	26.5	50	-
	300	0.7894	0.0345	0.6645	1.047	1.381	0.357	0.012	13.38	4	30	61	-
Adaptive Lasso	100	0.5566	0.0132	0.2247	1.043	2.013	0.049	0.012	3.49	1	8	22	-
	200	0.5714	0.0129	0.3352	1.054	2.332	0.062	0.010	4.81	1	13	43	-
	300	0.5735	0.0114	0.4096	1.064	2.646	0.057	0.005	5.67	1	15	46	-
Sica	100	0.2878	0.0055	0.1604	1.082	3.835	0.000	0.000	1.68	1	4	10	-
	200	0.2709	0.0026	0.1553	1.086	3.821	0.000	0.000	1.59	1	4	15	-
	300	0.2609	0.0016	0.1516	1.088	4.076	0.000	0.000	1.52	1	4	10	-
Hard thresholding	100	0.2733	0.0037	0.1202	1.077	3.717	0.000	0.000	1.45	1	3	11	-
	200	0.2644	0.0020	0.1319	1.081	3.669	0.000	0.000	1.45	1	3	15	-
	300	0.2580	0.0014	0.1385	1.086	3.979	0.000	0.000	1.46	1	3	19	-
Boosting methods													
$v = 0.1$	100	0.8863	0.3181	0.8924	1.129	3.683	0.596	0.000	34.08	24	45	54	-
	200	0.8750	0.2848	0.9405	1.203	4.935	0.558	0.000	59.31	50	67	74	-
	300	0.8651	0.2243	0.9503	1.211	5.196	0.532	0.000	69.84	62	78	87	-
$v = 1$	100	0.5570	0.1686	0.8663	1.249	7.960	0.031	0.000	18.42	9	32	54	-
	200	0.5604	0.2194	0.9439	1.549	>100	0.041	0.000	45.25	21	81	123	-
	300	0.5748	0.2725	0.9700	5.882	>100	0.057	0.000	82.96	42	125	169	-

Notes: See notes to Table 1.

Table 17: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0284	1.002	1.201	1.000	0.872	4.15	4	5	8	1.005
	200	1.0000	0.0006	0.0246	1.002	1.175	1.000	0.885	4.13	4	5	6	1.004
	300	1.0000	0.0005	0.0311	1.003	1.274	1.000	0.856	4.16	4	5	7	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0131	1.001	1.095	1.000	0.939	4.07	4	5	6	1.003
	200	1.0000	0.0003	0.0134	1.001	1.110	1.000	0.937	4.07	4	5	6	1.001
	300	1.0000	0.0003	0.0178	1.002	1.179	1.000	0.916	4.09	4	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0039	1.000	1.041	1.000	0.982	4.02	4	4	6	1.001
	200	0.9999	0.0001	0.0030	1.000	1.030	1.000	0.986	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0037	1.000	1.044	1.000	0.982	4.02	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0276	1.002	1.185	1.000	0.876	4.15	4	5	8	1.001
	200	1.0000	0.0006	0.0240	1.002	1.164	1.000	0.887	4.12	4	5	6	1.000
	300	1.0000	0.0005	0.0303	1.003	1.255	1.000	0.860	4.16	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0127	1.001	1.088	1.000	0.941	4.07	4	5	6	1.001
	200	1.0000	0.0003	0.0132	1.001	1.105	1.000	0.937	4.07	4	5	6	1.000
	300	1.0000	0.0003	0.0175	1.002	1.169	1.000	0.918	4.09	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0038	1.000	1.039	1.000	0.983	4.02	4	4	6	1.000
	200	0.9999	0.0001	0.0030	1.000	1.030	1.000	0.986	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0037	1.000	1.044	1.000	0.982	4.02	4	4	5	1.000
Penalised regression methods													
Lasso	100	0.9824	0.0535	0.4597	1.014	1.456	0.930	0.105	9.06	4	18	35	-
	200	0.9796	0.0341	0.5113	1.016	1.545	0.919	0.080	10.61	4	23	59	-
	300	0.9789	0.0269	0.5516	1.018	1.639	0.917	0.064	11.87	4	26	53	-
Adaptive Lasso	100	0.8480	0.0074	0.1133	1.017	2.673	0.492	0.259	4.11	2	7	17	-
	200	0.8429	0.0062	0.1592	1.017	2.726	0.470	0.209	4.59	2	10	33	-
	300	0.8538	0.0057	0.2001	1.019	2.937	0.512	0.192	5.09	2	11	45	-
Sica	100	0.4870	0.0055	0.1094	1.045	6.448	0.008	0.001	2.48	1	6	15	-
	200	0.4261	0.0014	0.0677	1.050	6.849	0.000	0.000	1.99	1	4	12	-
	300	0.4035	0.0009	0.0680	1.053	7.481	0.000	0.000	1.88	1	4	10	-
Hard thresholding	100	0.4569	0.0017	0.0362	1.046	6.826	0.019	0.006	1.99	1	4	10	-
	200	0.4040	0.0007	0.0326	1.052	7.193	0.006	0.001	1.76	1	4	11	-
	300	0.3773	0.0004	0.0334	1.056	7.822	0.003	0.002	1.64	1	4	9	-
Boosting methods													
$v = 0.1$	100	0.9916	0.3205	0.8829	1.038	3.493	0.967	0.000	34.73	26	44	52	-
	200	0.9906	0.3133	0.9386	1.074	5.715	0.963	0.000	65.36	53	76	83	-
	300	0.9903	0.2710	0.9528	1.087	6.926	0.961	0.000	84.17	76	92	100	-
$v = 1$	100	0.8801	0.1507	0.7925	1.088	8.641	0.543	0.000	17.99	11	27	43	-
	200	0.8293	0.1537	0.8958	1.160	14.297	0.383	0.000	33.43	22	48	75	-
	300	0.8023	0.1645	0.9352	1.225	20.986	0.333	0.000	51.89	35	75	113	-

Notes: See notes to Table 1.

Table 18: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0243	1.001	1.160	1.000	0.885	4.12	4	5	6	1.002
	200	1.0000	0.0007	0.0264	1.001	1.201	1.000	0.879	4.14	4	5	7	1.003
	300	1.0000	0.0005	0.0303	1.002	1.270	1.000	0.860	4.16	4	5	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0122	1.001	1.097	1.000	0.941	4.06	4	5	6	1.001
	200	1.0000	0.0004	0.0144	1.001	1.132	1.000	0.932	4.07	4	5	7	1.004
	300	1.0000	0.0003	0.0163	1.001	1.155	1.000	0.923	4.08	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0037	1.000	1.040	1.000	0.982	4.02	4	4	5	1.000
	200	1.0000	0.0001	0.0036	1.000	1.038	1.000	0.984	4.02	4	4	6	1.001
	300	1.0000	0.0001	0.0033	1.000	1.043	1.000	0.984	4.02	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0240	1.001	1.156	1.000	0.887	4.12	4	5	6	1.000
	200	1.0000	0.0007	0.0258	1.001	1.191	1.000	0.882	4.14	4	5	7	1.000
	300	1.0000	0.0005	0.0297	1.002	1.255	1.000	0.862	4.15	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0120	1.001	1.095	1.000	0.942	4.06	4	5	6	1.000
	200	1.0000	0.0004	0.0137	1.001	1.115	1.000	0.936	4.07	4	5	7	1.000
	300	1.0000	0.0003	0.0161	1.001	1.149	1.000	0.924	4.08	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0037	1.000	1.040	1.000	0.982	4.02	4	4	5	1.000
	200	1.0000	0.0001	0.0034	1.000	1.033	1.000	0.985	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0033	1.000	1.043	1.000	0.984	4.02	4	4	5	1.000
Penalised regression methods													
Lasso	100	0.9984	0.0553	0.4735	1.008	1.493	0.994	0.088	9.30	4	18	33	-
	200	0.9978	0.0356	0.5281	1.010	1.608	0.991	0.075	10.96	4	22	38	-
	300	0.9979	0.0263	0.5488	1.011	1.682	0.992	0.066	11.78	4	25	54	-
Adaptive Lasso	100	0.9471	0.0054	0.0782	1.008	2.641	0.797	0.565	4.30	3	7	20	-
	200	0.9433	0.0049	0.1239	1.009	2.765	0.789	0.471	4.73	3	9	31	-
	300	0.9471	0.0042	0.1511	1.010	2.890	0.798	0.428	5.04	3	10	33	-
Sica	100	0.6523	0.0062	0.1068	1.026	6.902	0.092	0.018	3.21	2	7	14	-
	200	0.5789	0.0023	0.0865	1.032	8.003	0.026	0.006	2.76	1	6	17	-
	300	0.5495	0.0011	0.0711	1.034	8.753	0.010	0.002	2.53	1	5	11	-
Hard thresholding	100	0.6649	0.0017	0.0309	1.024	7.229	0.216	0.145	2.83	1	5	10	-
	200	0.6214	0.0007	0.0270	1.028	7.791	0.160	0.104	2.63	1	5	8	-
	300	0.5898	0.0004	0.0251	1.031	8.657	0.109	0.072	2.48	1	4	10	-
Boosting methods													
$v = 0.1$	100	0.9994	0.3222	0.8829	1.023	3.481	0.998	0.000	34.93	27	44	56	-
	200	0.9990	0.3208	0.9395	1.044	5.907	0.996	0.000	66.87	54	78	88	-
	300	0.9995	0.2854	0.9547	1.056	7.260	0.998	0.000	88.48	80	97	107	-
$v = 1$	100	0.9831	0.1452	0.7669	1.052	8.303	0.933	0.000	17.87	12	26	35	-
	200	0.9605	0.1475	0.8778	1.097	14.401	0.842	0.000	32.75	23	45	64	-
	300	0.9494	0.1495	0.9182	1.137	20.779	0.798	0.000	48.06	35	65	88	-

Notes: See notes to Table 1.

Table 19: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0222	1.005	1.482	1.000	0.913	4.15	4	5	24	1.013
	200	1.0000	0.0009	0.0250	1.005	1.403	1.000	0.904	4.17	4	5	25	1.006
	300	1.0000	0.0007	0.0245	1.006	2.035	1.000	0.902	4.20	4	5	61	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0111	1.003	1.177	1.000	0.954	4.07	4	4	17	1.006
	200	1.0000	0.0005	0.0146	1.003	1.247	1.000	0.942	4.09	4	5	17	1.003
	300	1.0000	0.0004	0.0146	1.003	1.404	1.000	0.942	4.11	4	5	44	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0042	1.001	1.083	1.000	0.984	4.02	4	4	9	1.003
	200	0.9999	0.0001	0.0034	1.001	1.050	1.000	0.985	4.02	4	4	10	1.000
	300	1.0000	0.0001	0.0045	1.001	1.105	1.000	0.981	4.03	4	4	14	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0202	1.004	1.218	1.000	0.922	4.14	4	5	24	1.002
	200	1.0000	0.0008	0.0236	1.004	1.309	1.000	0.910	4.16	4	5	25	1.000
	300	1.0000	0.0006	0.0232	1.005	1.831	1.000	0.908	4.19	4	5	61	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0098	1.002	1.108	1.000	0.959	4.06	4	4	17	1.001
	200	1.0000	0.0005	0.0140	1.003	1.174	1.000	0.944	4.09	4	5	16	1.000
	300	1.0000	0.0004	0.0135	1.003	1.323	1.000	0.947	4.11	4	5	44	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0036	1.001	1.043	1.000	0.986	4.02	4	4	9	1.001
	200	0.9999	0.0001	0.0034	1.001	1.050	1.000	0.985	4.02	4	4	10	1.000
	300	1.0000	0.0001	0.0043	1.001	1.090	1.000	0.982	4.03	4	4	14	1.001
Penalised regression methods													
Lasso	100	0.9990	0.0448	0.4230	1.040	1.574	0.996	0.126	8.30	4	16	35	-
	200	0.9979	0.0319	0.4956	1.049	1.707	0.992	0.096	10.25	4	22	51	-
	300	0.9976	0.0266	0.5435	1.053	1.816	0.991	0.070	11.87	4	27	62	-
Adaptive Lasso	100	0.9335	0.0045	0.0618	1.050	3.050	0.753	0.573	4.16	3	6	25	-
	200	0.9403	0.0048	0.1084	1.052	3.082	0.773	0.504	4.70	3	9	39	-
	300	0.9424	0.0052	0.1421	1.056	3.315	0.786	0.461	5.30	3	11	43	-
Sica	100	0.6731	0.0058	0.1020	1.128	7.375	0.141	0.058	3.25	2	6	22	-
	200	0.6136	0.0024	0.0944	1.155	8.356	0.071	0.025	2.93	1	6	13	-
	300	0.5913	0.0018	0.0985	1.163	8.819	0.048	0.015	2.88	1	6	12	-
Hard thresholding	100	0.6608	0.0021	0.0342	1.132	8.431	0.230	0.167	2.84	1	5	12	-
	200	0.6320	0.0012	0.0406	1.149	8.729	0.183	0.123	2.77	1	5	13	-
	300	0.6081	0.0009	0.0472	1.157	9.080	0.143	0.088	2.71	1	5.5	16	-
Boosting methods													
$v = 0.1$	100	0.9996	0.3267	0.8835	1.124	5.098	0.999	0.000	35.36	26	44	50	-
	200	0.9991	0.2559	0.9256	1.167	5.953	0.997	0.000	54.15	46	62	70	-
	300	0.9985	0.1956	0.9350	1.170	6.001	0.994	0.000	61.91	53	71	82	-
$v = 1$	100	0.9800	0.2408	0.8392	1.223	10.147	0.921	0.000	27.04	15	43	61	-
	200	0.9590	0.2959	0.9322	1.492	>100	0.840	0.000	61.84	34	96	132	-
	300	0.9466	0.3145	0.9588	1.858	>100	0.793	0.000	96.87	61	133	156	-

Notes: See notes to Table 1.

Table 20: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0171	1.001	1.224	1.000	0.931	4.11	4	5	19	1.005
	200	1.0000	0.0006	0.0152	1.001	1.240	1.000	0.941	4.11	4	5	24	1.003
	300	1.0000	0.0003	0.0155	1.001	1.237	1.000	0.935	4.09	4	5	16	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0089	1.000	1.156	1.000	0.962	4.05	4	4	15	1.004
	200	1.0000	0.0003	0.0092	1.001	1.162	1.000	0.965	4.06	4	4	16	1.002
	300	1.0000	0.0001	0.0077	1.000	1.106	1.000	0.966	4.04	4	4	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0019	1.000	1.044	1.000	0.991	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0029	1.000	1.062	1.000	0.988	4.02	4	4	7	1.001
	300	1.0000	0.0000	0.0017	1.000	1.031	1.000	0.992	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0164	1.001	1.183	1.000	0.934	4.10	4	5	19	1.001
	200	1.0000	0.0005	0.0148	1.001	1.214	1.000	0.943	4.11	4	5	24	1.001
	300	1.0000	0.0003	0.0147	1.001	1.189	1.000	0.939	4.09	4	5	16	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0084	1.000	1.117	1.000	0.965	4.05	4	4	15	1.001
	200	1.0000	0.0003	0.0091	1.001	1.137	1.000	0.966	4.06	4	4	15	1.001
	300	1.0000	0.0001	0.0072	1.000	1.104	1.000	0.968	4.04	4	4	9	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0018	1.000	1.023	1.000	0.991	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0027	1.000	1.044	1.000	0.989	4.02	4	4	7	1.000
	300	1.0000	0.0000	0.0016	1.000	1.041	1.000	0.993	4.01	4	4	6	1.001
Penalised regression methods													
Lasso	100	1.0000	0.0395	0.3939	1.012	1.525	1.000	0.140	7.79	4	15	35	-
	200	1.0000	0.0249	0.4535	1.014	1.604	1.000	0.102	8.89	4	17	38	-
	300	1.0000	0.0190	0.4679	1.015	1.668	1.000	0.105	9.63	4	21	46	-
Adaptive Lasso	100	0.9996	0.0019	0.0207	1.008	2.203	0.999	0.931	4.18	4	5	30	-
	200	0.9996	0.0020	0.0369	1.009	2.346	0.999	0.892	4.38	4	5	30	-
	300	0.9996	0.0017	0.0454	1.009	2.527	0.999	0.872	4.51	4	6	33	-
Sica	100	0.9789	0.0034	0.0547	1.011	3.660	0.917	0.711	4.24	3	6	10	-
	200	0.9683	0.0013	0.0469	1.013	4.382	0.878	0.689	4.14	3	5	10	-
	300	0.9644	0.0010	0.0483	1.015	4.769	0.864	0.684	4.14	3	6	15	-
Hard thresholding	100	0.9764	0.0007	0.0104	1.009	4.740	0.924	0.890	3.97	3	4	9	-
	200	0.9684	0.0002	0.0078	1.011	5.592	0.907	0.880	3.92	3	4	8	-
	300	0.9660	0.0001	0.0069	1.011	5.534	0.894	0.870	3.91	3	4	10	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3275	0.8842	1.036	5.283	1.000	0.000	35.44	26	44	51	-
	200	1.0000	0.2721	0.9297	1.056	6.948	1.000	0.000	57.34	50	65	73	-
	300	1.0000	0.2163	0.9409	1.062	7.309	1.000	0.000	68.02	60	77	88	-
$v = 1$	100	1.0000	0.2256	0.8293	1.063	9.470	1.000	0.000	25.66	15	39	57	-
	200	1.0000	0.2359	0.9145	1.122	16.988	1.000	0.000	50.24	31	74	100	-
	300	1.0000	0.2519	0.9458	1.180	24.928	1.000	0.000	78.56	49	114	162	-

Notes: See notes to Table 1.

Table 21: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0149	1.000	1.192	1.000	0.938	4.09	4	5	13	1.007
	200	1.0000	0.0005	0.0136	1.001	1.227	1.000	0.943	4.09	4	5	42	1.003
	300	1.0000	0.0004	0.0155	1.001	1.312	1.000	0.940	4.11	4	5	29	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0004	0.0071	1.000	1.107	1.000	0.970	4.04	4	4	11	1.003
	200	1.0000	0.0002	0.0065	1.000	1.141	1.000	0.971	4.04	4	4	26	1.002
	300	1.0000	0.0002	0.0080	1.000	1.140	1.000	0.967	4.05	4	4	18	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0019	1.000	1.026	1.000	0.992	4.01	4	4	8	1.001
	200	1.0000	0.0000	0.0010	1.000	1.032	1.000	0.996	4.01	4	4	7	1.001
	300	1.0000	0.0000	0.0023	1.000	1.029	1.000	0.991	4.01	4	4	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0136	1.000	1.113	1.000	0.943	4.08	4	5	13	1.001
	200	1.0000	0.0005	0.0130	1.000	1.184	1.000	0.945	4.09	4	5	42	1.000
	300	1.0000	0.0004	0.0147	1.000	1.253	1.000	0.944	4.11	4	5	29	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0065	1.000	1.061	1.000	0.973	4.04	4	4	11	1.000
	200	1.0000	0.0002	0.0062	1.000	1.104	1.000	0.972	4.04	4	4	26	1.000
	300	1.0000	0.0002	0.0077	1.000	1.105	1.000	0.969	4.05	4	4	18	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0018	1.000	1.022	1.000	0.992	4.01	4	4	8	1.000
	200	1.0000	0.0000	0.0009	1.000	1.016	1.000	0.996	4.01	4	4	7	1.000
	300	1.0000	0.0000	0.0021	1.000	1.025	1.000	0.992	4.01	4	4	8	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0378	0.3859	1.008	1.503	1.000	0.142	7.63	4	16	29	-
	200	1.0000	0.0240	0.4339	1.009	1.593	1.000	0.130	8.70	4	18	34	-
	300	1.0000	0.0177	0.4601	1.009	1.656	1.000	0.095	9.24	4	18	44	-
Adaptive Lasso	100	1.0000	0.0015	0.0145	1.005	1.824	1.000	0.967	4.14	4	4	20	-
	200	1.0000	0.0016	0.0245	1.004	2.044	1.000	0.951	4.31	4	4	27	-
	300	1.0000	0.0011	0.0286	1.004	1.979	1.000	0.940	4.33	4	5	28	-
Sica	100	0.9988	0.0017	0.0297	1.002	1.904	0.995	0.868	4.16	4	5	13	-
	200	0.9981	0.0006	0.0197	1.002	2.078	0.993	0.909	4.10	4	5	10	-
	300	0.9964	0.0004	0.0198	1.002	2.551	0.986	0.900	4.09	4	5	9	-
Hard thresholding	100	0.9981	0.0005	0.0071	1.001	2.552	0.994	0.970	4.04	4	4	10	-
	200	0.9966	0.0001	0.0033	1.001	3.185	0.990	0.980	4.01	4	4	8	-
	300	0.9969	0.0001	0.0041	1.001	3.236	0.991	0.978	4.01	4	4	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3266	0.8837	1.021	5.245	1.000	0.000	35.36	26	44	52	-
	200	1.0000	0.2753	0.9306	1.033	7.072	1.000	0.000	57.96	50	65	72	-
	300	1.0000	0.2199	0.9418	1.037	7.638	1.000	0.000	69.09	60	78	85	-
$v = 1$	100	1.0000	0.2252	0.8286	1.038	9.307	1.000	0.000	25.61	15	39	59	-
	200	1.0000	0.2268	0.9115	1.073	16.620	1.000	0.000	48.45	30	71	93	-
	300	1.0000	0.2318	0.9417	1.104	24.430	1.000	0.000	72.60	46	102	130	-

Notes: See notes to Table 1.

Table 22: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9985	0.0015	0.0233	1.006	1.435	0.994	0.898	4.13	4	5	22	1.009
	200	0.9974	0.0010	0.0279	1.007	1.696	0.990	0.889	4.19	4	5	36	1.011
	300	0.9980	0.0005	0.0237	1.007	1.524	0.992	0.901	4.15	4	5	28	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9971	0.0007	0.0128	1.003	1.265	0.989	0.934	4.06	4	5	9	1.004
	200	0.9964	0.0006	0.0169	1.004	1.403	0.986	0.923	4.10	4	5	23	1.007
	300	0.9968	0.0003	0.0144	1.005	1.346	0.987	0.929	4.08	4	5	21	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9920	0.0001	0.0026	1.001	1.112	0.970	0.957	3.98	4	4	5	1.001
	200	0.9894	0.0001	0.0050	1.002	1.187	0.962	0.942	3.99	4	4	10	1.002
	300	0.9906	0.0001	0.0046	1.002	1.143	0.964	0.945	3.99	4	4	8	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9985	0.0014	0.0216	1.005	1.362	0.994	0.906	4.13	4	5	22	1.001
	200	0.9974	0.0010	0.0261	1.006	1.597	0.990	0.896	4.18	4	5	36	1.001
	300	0.9980	0.0005	0.0222	1.006	1.440	0.992	0.907	4.14	4	5	28	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9971	0.0007	0.0121	1.003	1.238	0.989	0.937	4.06	4	5	9	1.001
	200	0.9964	0.0005	0.0154	1.004	1.297	0.986	0.929	4.09	4	5	23	1.000
	300	0.9968	0.0003	0.0134	1.004	1.289	0.987	0.934	4.07	4	5	21	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9920	0.0001	0.0026	1.001	1.112	0.970	0.957	3.98	4	4	5	1.001
	200	0.9894	0.0001	0.0046	1.002	1.123	0.962	0.944	3.98	4	4	10	1.000
	300	0.9906	0.0001	0.0043	1.002	1.118	0.964	0.947	3.99	4	4	8	1.000
Penalised regression methods													
Lasso	100	0.9613	0.0429	0.4128	1.040	1.445	0.850	0.118	7.96	4	16	36	-
	200	0.9530	0.0310	0.4984	1.048	1.525	0.819	0.075	9.89	4	21	47	-
	300	0.9551	0.0255	0.5378	1.051	1.687	0.824	0.063	11.38	4	26	56	-
Adaptive Lasso	100	0.7648	0.0067	0.1018	1.052	2.648	0.294	0.152	3.70	2	7	22	-
	200	0.7660	0.0063	0.1619	1.057	2.779	0.300	0.124	4.29	2	9.5	40	-
	300	0.7818	0.0069	0.2106	1.064	3.227	0.323	0.105	5.16	2	13	52	-
Sica	100	0.4380	0.0052	0.1086	1.116	5.834	0.007	0.001	2.26	1	5	31	-
	200	0.3950	0.0022	0.0991	1.127	5.975	0.001	0.000	2.00	1	5	13	-
	300	0.3798	0.0014	0.0951	1.134	6.525	0.001	0.000	1.94	1	4	18	-
Hard thresholding	100	0.4033	0.0025	0.0510	1.117	6.113	0.008	0.003	1.85	1	4	13	-
	200	0.3665	0.0012	0.0513	1.129	6.147	0.004	0.001	1.69	1	4	17	-
	300	0.3646	0.0011	0.0676	1.137	6.700	0.001	0.000	1.77	1	4	14	-
Boosting methods													
$v = 0.1$	100	0.9815	0.3265	0.8855	1.122	5.049	0.926	0.000	35.27	26	43	51	-
	200	0.9779	0.2566	0.9273	1.170	5.865	0.912	0.000	54.21	46	62	71	-
	300	0.9750	0.1977	0.9371	1.173	6.125	0.900	0.000	62.43	54	71	80	-
$v = 1$	100	0.8646	0.2422	0.8568	1.220	10.012	0.512	0.000	26.71	14	44	60	-
	200	0.8286	0.2885	0.9400	1.648	>100	0.424	0.000	59.87	33	91.5	115	-
	300	0.8164	0.3148	0.9644	2.811	>100	0.394	0.000	96.44	59	132	161	-

Notes: See notes to Table 1.

Table 23: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0170	1.001	1.254	1.000	0.932	4.10	4	5	14	1.005
	200	1.0000	0.0006	0.0180	1.001	1.394	1.000	0.930	4.13	4	5	39	1.005
	300	1.0000	0.0005	0.0185	1.001	1.495	1.000	0.927	4.14	4	5	43	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0096	1.001	1.162	1.000	0.959	4.05	4	4	9	1.004
	200	1.0000	0.0003	0.0096	1.000	1.183	1.000	0.961	4.06	4	4	28	1.001
	300	1.0000	0.0003	0.0115	1.001	1.340	1.000	0.954	4.08	4	4	26	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0016	1.000	1.042	1.000	0.992	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0019	1.000	1.054	1.000	0.992	4.01	4	4	8	1.000
	300	1.0000	0.0001	0.0025	1.000	1.068	1.000	0.990	4.02	4	4	11	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0158	1.001	1.201	1.000	0.936	4.09	4	5	14	1.000
	200	1.0000	0.0006	0.0172	1.001	1.339	1.000	0.933	4.12	4	5	39	1.001
	300	1.0000	0.0005	0.0179	1.001	1.451	1.000	0.930	4.13	4	5	43	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0087	1.001	1.134	1.000	0.963	4.05	4	4	9	1.000
	200	1.0000	0.0003	0.0095	1.000	1.173	1.000	0.962	4.06	4	4	28	1.000
	300	1.0000	0.0003	0.0111	1.001	1.251	1.000	0.956	4.08	4	4	26	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0015	1.000	1.037	1.000	0.993	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0019	1.000	1.054	1.000	0.992	4.01	4	4	8	1.000
	300	1.0000	0.0001	0.0025	1.000	1.068	1.000	0.990	4.02	4	4	11	1.000
					Penalised regression methods								
Lasso	100	0.9998	0.0427	0.4172	1.011	1.473	0.999	0.114	8.10	4	16	30	-
	200	0.9998	0.0247	0.4444	1.013	1.572	0.999	0.116	8.85	4	17	47	-
	300	0.9999	0.0202	0.4906	1.015	1.643	1.000	0.084	9.97	4	21	43	-
Adaptive Lasso	100	0.9796	0.0027	0.0425	1.012	2.625	0.919	0.768	4.18	3	6	12	-
	200	0.9784	0.0024	0.0626	1.013	2.794	0.915	0.725	4.39	3	6.5	26	-
	300	0.9780	0.0022	0.0847	1.013	2.823	0.913	0.658	4.57	3	7	36	-
Sica	100	0.8050	0.0064	0.1026	1.032	6.052	0.370	0.147	3.83	2	7	14	-
	200	0.7491	0.0024	0.0841	1.039	7.260	0.227	0.102	3.47	2	6	12	-
	300	0.7120	0.0014	0.0760	1.046	8.057	0.171	0.076	3.26	2	6	14	-
Hard thresholding	100	0.7893	0.0016	0.0255	1.033	7.112	0.443	0.368	3.31	2	5	11	-
	200	0.7644	0.0006	0.0202	1.036	7.695	0.378	0.322	3.18	2	5	12	-
	300	0.7453	0.0004	0.0192	1.041	8.255	0.346	0.296	3.09	2	5	9	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3293	0.8847	1.037	5.296	1.000	0.000	35.62	26	44	51	-
	200	1.0000	0.2731	0.9300	1.055	7.194	1.000	0.000	57.53	50	65.5	74	-
	300	1.0000	0.2179	0.9412	1.062	7.549	1.000	0.000	68.50	60	77	90	-
$v = 1$	100	0.9993	0.2288	0.8316	1.065	9.354	0.997	0.000	25.97	15	39	62	-
	200	0.9970	0.2336	0.9138	1.119	17.343	0.988	0.000	49.77	30	73	104	-
	300	0.9964	0.2505	0.9459	1.178	25.471	0.986	0.000	78.14	51	111	161	-

Notes: See notes to Table 1.

Table 24: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0175	1.000	1.291	1.000	0.932	4.12	4	5	26	1.002
	200	1.0000	0.0006	0.0144	1.001	1.346	1.000	0.942	4.11	4	5	52	1.003
	300	1.0000	0.0004	0.0154	1.001	1.433	1.000	0.940	4.11	4	5	45	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0102	1.000	1.168	1.000	0.959	4.07	4	4	20	1.001
	200	1.0000	0.0003	0.0080	1.000	1.203	1.000	0.966	4.06	4	4	40	1.002
	300	1.0000	0.0002	0.0075	1.000	1.175	1.000	0.970	4.05	4	4	30	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0019	1.000	1.050	1.000	0.993	4.01	4	4	8	1.001
	200	1.0000	0.0001	0.0020	1.000	1.057	1.000	0.993	4.02	4	4	23	1.000
	300	1.0000	0.0000	0.0015	1.000	1.046	1.000	0.994	4.01	4	4	10	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0172	1.000	1.281	1.000	0.933	4.12	4	5	26	1.000
	200	1.0000	0.0005	0.0138	1.000	1.291	1.000	0.945	4.11	4	5	52	1.000
	300	1.0000	0.0004	0.0145	1.001	1.351	1.000	0.943	4.11	4	5	45	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0100	1.000	1.161	1.000	0.960	4.07	4	4	20	1.000
	200	1.0000	0.0003	0.0077	1.000	1.189	1.000	0.968	4.06	4	4	40	1.000
	300	1.0000	0.0002	0.0070	1.000	1.153	1.000	0.972	4.05	4	4	30	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0019	1.000	1.050	1.000	0.993	4.01	4	4	8	1.001
	200	1.0000	0.0001	0.0020	1.000	1.057	1.000	0.993	4.02	4	4	23	1.000
	300	1.0000	0.0000	0.0014	1.000	1.035	1.000	0.995	4.01	4	4	10	1.000
					Penalised regression methods								
Lasso	100	1.0000	0.0405	0.4067	1.007	1.465	1.000	0.125	7.89	4	14	30	-
	200	1.0000	0.0258	0.4546	1.008	1.563	1.000	0.094	9.06	4	18	36	-
	300	1.0000	0.0188	0.4794	1.009	1.568	1.000	0.090	9.56	4	19	47	-
Adaptive Lasso	100	0.9971	0.0017	0.0244	1.006	2.263	0.989	0.894	4.15	4	5	25	-
	200	0.9968	0.0016	0.0397	1.006	2.374	0.987	0.845	4.29	4	5	25	-
	300	0.9979	0.0016	0.0505	1.006	2.548	0.992	0.838	4.47	4	6	33	-
Sica	100	0.9418	0.0048	0.0770	1.011	4.611	0.781	0.511	4.23	3	6	14	-
	200	0.9193	0.0019	0.0665	1.014	5.326	0.694	0.463	4.06	3	6	16	-
	300	0.8999	0.0011	0.0570	1.015	5.921	0.633	0.448	3.92	3	6	11	-
Hard thresholding	100	0.9315	0.0008	0.0127	1.010	5.836	0.790	0.749	3.80	2	4	10	-
	200	0.9256	0.0004	0.0132	1.011	6.480	0.780	0.736	3.78	2	4	9	-
	300	0.9120	0.0002	0.0093	1.012	6.540	0.738	0.706	3.70	2	4	8	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3265	0.8835	1.021	5.326	1.000	0.000	35.34	26	44	53	-
	200	1.0000	0.2760	0.9307	1.033	7.276	1.000	0.000	58.09	51	66	72	-
	300	1.0000	0.2224	0.9424	1.039	7.422	1.000	0.000	69.82	61	79	91	-
$v = 1$	100	1.0000	0.2248	0.8284	1.037	9.338	1.000	0.000	25.59	14	39	56	-
	200	1.0000	0.2253	0.9111	1.071	17.000	1.000	0.000	48.16	30	70	108	-
	300	1.0000	0.2339	0.9423	1.107	23.737	1.000	0.000	73.23	47	104	138	-

Notes: See notes to Table 1.

Table 25: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9204	0.0016	0.0266	1.008	1.570	0.766	0.697	3.83	2	5	23	1.005
	200	0.8814	0.0007	0.0244	1.010	1.580	0.684	0.623	3.66	2	5	21	1.006
	300	0.8631	0.0005	0.0284	1.012	1.929	0.664	0.601	3.61	2	5	30	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8900	0.0008	0.0146	1.006	1.380	0.700	0.664	3.64	2	4	17	1.002
	200	0.8445	0.0004	0.0148	1.010	1.414	0.612	0.584	3.45	1	4	13	1.004
	300	0.8264	0.0003	0.0174	1.012	1.493	0.592	0.561	3.39	1	4	20	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8043	0.0002	0.0046	1.010	1.329	0.535	0.527	3.24	1	4	7	1.002
	200	0.7485	0.0001	0.0043	1.016	1.447	0.459	0.454	3.01	1	4	6	1.000
	300	0.7278	0.0001	0.0045	1.020	1.475	0.433	0.428	2.93	0	4	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9204	0.0015	0.0259	1.007	1.477	0.766	0.699	3.83	2	5	22	1.000
	200	0.8814	0.0007	0.0232	1.009	1.475	0.684	0.627	3.65	2	5	21	1.000
	300	0.8631	0.0005	0.0280	1.012	1.873	0.664	0.603	3.60	2	5	30	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8900	0.0008	0.0142	1.006	1.361	0.700	0.665	3.63	2	4	17	1.000
	200	0.8445	0.0003	0.0140	1.009	1.371	0.612	0.585	3.45	1	4	13	1.000
	300	0.8264	0.0003	0.0173	1.012	1.486	0.592	0.561	3.39	1	4	20	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8043	0.0002	0.0043	1.010	1.302	0.535	0.528	3.24	1	4	7	1.000
	200	0.7485	0.0001	0.0043	1.016	1.447	0.459	0.454	3.01	1	4	6	1.000
	300	0.7278	0.0001	0.0043	1.019	1.458	0.433	0.428	2.93	0	4	8	1.000
					Penalised regression methods								
Lasso	100	0.8240	0.0408	0.4395	1.030	1.120	0.433	0.045	7.22	3	15	28	-
	200	0.8101	0.0289	0.5086	1.037	1.228	0.402	0.037	8.90	3	20	57	-
	300	0.8083	0.0255	0.5651	1.044	1.379	0.408	0.023	10.79	3	26	81	-
Adaptive Lasso	100	0.5634	0.0098	0.1775	1.037	1.947	0.060	0.013	3.19	1	7	18	-
	200	0.5644	0.0086	0.2469	1.047	2.366	0.062	0.012	3.94	1	11	49	-
	300	0.5750	0.0088	0.3069	1.057	2.734	0.063	0.013	4.90	1	14	67	-
Sica	100	0.3071	0.0051	0.1442	1.075	3.830	0.000	0.000	1.72	1	4	11	-
	200	0.2798	0.0021	0.1264	1.079	3.855	0.000	0.000	1.53	1	4	14	-
	300	0.2711	0.0014	0.1288	1.081	3.932	0.000	0.000	1.49	1	4	9	-
Hard thresholding	100	0.2865	0.0029	0.0944	1.070	3.672	0.000	0.000	1.43	1	3	10	-
	200	0.2715	0.0016	0.1008	1.075	3.745	0.000	0.000	1.39	1	3	15	-
	300	0.2634	0.0012	0.1087	1.079	3.879	0.000	0.000	1.40	1	3	21	-
					Boosting methods								
$v = 0.1$	100	0.9090	0.3302	0.8944	1.116	4.882	0.660	0.000	35.34	25.5	44	51	-
	200	0.8948	0.2582	0.9334	1.161	5.850	0.616	0.000	54.19	46	62	70	-
	300	0.8868	0.1985	0.9427	1.168	5.856	0.597	0.000	62.29	53.5	72	84	-
$v = 1$	100	0.6781	0.2366	0.8835	1.203	9.265	0.140	0.000	25.42	13	42	62	-
	200	0.6876	0.2912	0.9505	3.271	>100	0.163	0.000	59.82	33	93	123	-
	300	0.6945	0.3170	0.9701	-	-	0.178	0.000	96.62	60	130.5	158	-

Notes: See notes to Table 1.

Table 26: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0179	1.001	1.434	1.000	0.932	4.12	4	5	18	1.005
	200	1.0000	0.0006	0.0172	1.001	1.441	1.000	0.936	4.12	4	5	23	1.004
	300	1.0000	0.0003	0.0152	1.001	1.505	1.000	0.941	4.10	4	5	18	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0101	1.001	1.275	1.000	0.959	4.06	4	4	17	1.001
	200	1.0000	0.0003	0.0094	1.001	1.259	1.000	0.964	4.06	4	4	17	1.003
	300	1.0000	0.0002	0.0086	1.001	1.225	1.000	0.967	4.05	4	4	12	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0018	1.000	1.071	1.000	0.993	4.01	4	4	8	1.000
	200	1.0000	0.0000	0.0013	1.000	1.039	1.000	0.994	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0020	1.000	1.084	1.000	0.992	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0170	1.001	1.358	1.000	0.936	4.11	4	5	18	1.000
	200	1.0000	0.0006	0.0166	1.001	1.366	1.000	0.938	4.12	4	5	23	1.001
	300	1.0000	0.0003	0.0149	1.001	1.401	1.000	0.942	4.10	4	5	18	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0099	1.001	1.265	1.000	0.960	4.06	4	4	17	1.000
	200	1.0000	0.0003	0.0089	1.001	1.228	1.000	0.966	4.06	4	4	17	1.001
	300	1.0000	0.0002	0.0083	1.001	1.223	1.000	0.968	4.05	4	4	12	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0018	1.000	1.071	1.000	0.993	4.01	4	4	8	1.000
	200	1.0000	0.0000	0.0013	1.000	1.039	1.000	0.994	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0017	1.000	1.068	1.000	0.993	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.9854	0.0408	0.4072	1.011	1.414	0.942	0.114	7.86	4	15	35	-
	200	0.9835	0.0249	0.4444	1.014	1.502	0.934	0.106	8.81	4	18.5	45	-
	300	0.9818	0.0199	0.4850	1.015	1.572	0.927	0.086	9.83	4	20.5	74	-
Adaptive Lasso	100	0.8474	0.0055	0.0833	1.016	2.709	0.481	0.311	3.92	2	7	27	-
	200	0.8423	0.0042	0.1142	1.017	2.915	0.471	0.256	4.20	2	8	41	-
	300	0.8476	0.0038	0.1408	1.017	2.955	0.485	0.237	4.50	2	9	39	-
Sica	100	0.5340	0.0061	0.1123	1.040	6.009	0.026	0.004	2.72	1	6	14	-
	200	0.4753	0.0018	0.0833	1.044	6.695	0.003	0.001	2.26	1	5	12	-
	300	0.4470	0.0010	0.0697	1.047	7.065	0.004	0.001	2.09	1	4	11	-
Hard thresholding	100	0.4871	0.0022	0.0385	1.043	6.579	0.042	0.020	2.16	1	5	15	-
	200	0.4400	0.0007	0.0272	1.047	7.136	0.013	0.006	1.89	1	4	9	-
	300	0.4184	0.0005	0.0311	1.049	7.492	0.009	0.003	1.82	1	4	12	-
Boosting methods													
$v = 0.1$	100	0.9940	0.3261	0.8842	1.037	5.196	0.976	0.000	35.28	26	44	54	-
	200	0.9939	0.2753	0.9309	1.057	7.120	0.976	0.000	57.93	50	66	74	-
	300	0.9920	0.2195	0.9421	1.063	7.443	0.968	0.000	68.93	60	78	87	-
$v = 1$	100	0.9535	0.2267	0.8371	1.065	9.168	0.816	0.000	25.58	14	39	62	-
	200	0.9424	0.2350	0.9191	1.123	17.035	0.773	0.000	49.83	30	72	97	-
	300	0.9350	0.2504	0.9491	1.181	25.074	0.746	0.000	77.87	50.5	112	150	-

Notes: See notes to Table 1.

Table 27: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0140	1.001	1.327	1.000	0.940	4.08	4	5	17	1.004
	200	1.0000	0.0007	0.0173	1.001	1.608	1.000	0.934	4.13	4	5	44	1.005
	300	1.0000	0.0003	0.0147	1.001	1.547	1.000	0.942	4.10	4	5	28	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0075	1.000	1.204	1.000	0.967	4.04	4	4	12	1.002
	200	1.0000	0.0003	0.0095	1.001	1.317	1.000	0.961	4.06	4	4	32	1.001
	300	1.0000	0.0002	0.0077	1.001	1.339	1.000	0.969	4.05	4	4	16	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0019	1.000	1.071	1.000	0.992	4.01	4	4	8	1.001
	200	1.0000	0.0001	0.0024	1.000	1.104	1.000	0.989	4.01	4	4	10	1.000
	300	1.0000	0.0000	0.0024	1.000	1.089	1.000	0.990	4.01	4	4	8	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0133	1.001	1.297	1.000	0.944	4.08	4	5	17	1.001
	200	1.0000	0.0006	0.0167	1.001	1.495	1.000	0.936	4.13	4	5	44	1.000
	300	1.0000	0.0003	0.0145	1.001	1.509	1.000	0.943	4.10	4	5	28	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0071	1.000	1.188	1.000	0.969	4.04	4	4	12	1.000
	200	1.0000	0.0003	0.0093	1.000	1.311	1.000	0.962	4.06	4	4	32	1.000
	300	1.0000	0.0002	0.0075	1.000	1.270	1.000	0.970	4.05	4	4	15	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0017	1.000	1.058	1.000	0.993	4.01	4	4	8	1.000
	200	1.0000	0.0001	0.0024	1.000	1.104	1.000	0.989	4.01	4	4	10	1.000
	300	1.0000	0.0000	0.0024	1.000	1.089	1.000	0.990	4.01	4	4	8	1.000
					Penalised regression methods								
Lasso	100	0.9986	0.0412	0.4075	1.007	1.459	0.995	0.136	7.95	4	15	31	-
	200	0.9995	0.0275	0.4722	1.009	1.607	0.998	0.092	9.39	4	19	49	-
	300	0.9981	0.0190	0.4808	1.009	1.541	0.993	0.096	9.62	4	20	50	-
Adaptive Lasso	100	0.9423	0.0037	0.0574	1.009	2.698	0.778	0.591	4.12	3	6	16	-
	200	0.9433	0.0034	0.0891	1.009	2.890	0.781	0.537	4.45	3	7	31	-
	300	0.9464	0.0021	0.0892	1.009	2.758	0.793	0.540	4.42	3	7	26	-
Sica	100	0.7055	0.0066	0.1092	1.022	6.306	0.164	0.041	3.46	2	7	16	-
	200	0.6399	0.0026	0.0927	1.027	7.212	0.072	0.019	3.06	2	6	17	-
	300	0.6065	0.0013	0.0781	1.029	7.691	0.041	0.011	2.82	1	5	10	-
Hard thresholding	100	0.6781	0.0020	0.0317	1.024	7.337	0.248	0.179	2.90	1	5	13	-
	200	0.6276	0.0007	0.0241	1.027	7.931	0.162	0.117	2.65	1	5	12	-
	300	0.6191	0.0004	0.0199	1.028	8.024	0.161	0.121	2.59	1	4	9	-
					Boosting methods								
$v = 0.1$	100	0.9996	0.3258	0.8834	1.021	5.454	0.999	0.000	35.27	26	44	54	-
	200	0.9999	0.2784	0.9313	1.034	7.305	1.000	0.000	58.57	50.5	66	73	-
	300	0.9993	0.2234	0.9427	1.037	7.573	0.997	0.000	70.12	62	79	87	-
$v = 1$	100	0.9948	0.2219	0.8279	1.037	9.358	0.979	0.000	25.28	15	39	53	-
	200	0.9941	0.2263	0.9119	1.072	16.765	0.977	0.000	48.34	30	70	98	-
	300	0.9924	0.2312	0.9419	1.104	23.668	0.970	0.000	72.40	47	103	130	-

Notes: See notes to Table 1.

Table 28: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9969	0.0016	0.0300	1.006	1.416	0.988	0.848	4.14	4	5	7	1.022
	200	0.9946	0.0008	0.0319	1.008	1.692	0.979	0.836	4.14	4	5	7	1.026
	300	0.9931	0.0006	0.0352	1.009	1.846	0.975	0.822	4.15	4	5	8	1.023
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9938	0.0009	0.0164	1.006	1.550	0.975	0.898	4.06	4	5	6	1.017
	200	0.9919	0.0005	0.0173	1.008	1.759	0.968	0.889	4.06	4	5	7	1.023
	300	0.9888	0.0003	0.0179	1.010	2.021	0.959	0.882	4.05	4	5	6	1.019
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9865	0.0002	0.0039	1.009	1.881	0.947	0.930	3.97	3	4	6	1.028
	200	0.9808	0.0001	0.0058	1.012	2.349	0.928	0.904	3.95	3	4	6	1.036
	300	0.9733	0.0001	0.0042	1.017	2.738	0.902	0.885	3.91	3	4	5	1.028
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9955	0.0015	0.0276	1.006	1.452	0.982	0.853	4.12	4	5	7	1.003
	200	0.9929	0.0008	0.0296	1.008	1.726	0.972	0.840	4.12	4	5	7	1.007
	300	0.9910	0.0006	0.0332	1.010	1.899	0.967	0.823	4.14	4	5	8	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9925	0.0008	0.0150	1.007	1.594	0.970	0.900	4.05	4	5	6	1.004
	200	0.9893	0.0004	0.0160	1.009	1.878	0.958	0.885	4.04	4	5	7	1.006
	300	0.9868	0.0003	0.0167	1.010	2.091	0.951	0.878	4.03	4	5	6	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9828	0.0002	0.0037	1.011	2.053	0.932	0.916	3.95	3	4	6	1.012
	200	0.9766	0.0001	0.0056	1.015	2.515	0.912	0.888	3.93	3	4	6	1.018
	300	0.9698	0.0001	0.0040	1.020	2.889	0.890	0.874	3.90	3	4	5	1.013
					Penalised regression methods								
Lasso	100	1.0000	0.0830	0.5944	1.060	2.778	1.000	0.025	11.97	5	22	48	-
	200	1.0000	0.0591	0.6669	1.075	3.330	1.000	0.013	15.57	6	32	54	-
	300	0.9996	0.0496	0.7143	1.087	3.785	0.999	0.012	18.68	6	37	78	-
Adaptive Lasso	100	0.9923	0.0077	0.1017	1.038	2.825	0.970	0.652	4.70	4	8	33	-
	200	0.9943	0.0096	0.1867	1.046	3.359	0.979	0.510	5.85	4	12	46	-
	300	0.9964	0.0097	0.2535	1.053	3.860	0.987	0.410	6.85	4	16	61	-
Sica	100	0.9481	0.0030	0.0499	1.044	4.125	0.809	0.637	4.08	3	6	13	-
	200	0.9344	0.0017	0.0548	1.059	5.007	0.764	0.589	4.06	3	6	13	-
	300	0.9195	0.0012	0.0618	1.071	5.646	0.713	0.527	4.04	3	6	13	-
Hard thresholding	100	0.9466	0.0016	0.0254	1.039	4.024	0.805	0.712	3.94	3	5	28	-
	200	0.9351	0.0012	0.0355	1.054	4.929	0.766	0.655	3.97	3	5.5	17	-
	300	0.9273	0.0008	0.0367	1.058	5.238	0.743	0.629	3.94	3	5	18	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3478	0.8903	1.135	5.767	1.000	0.000	37.39	28	47	54	-
	200	1.0000	0.3053	0.9371	1.209	8.398	1.000	0.000	63.85	57	71	80	-
	300	0.9998	0.2374	0.9459	1.217	8.809	0.999	0.000	74.26	67	82	89	-
$v = 1$	100	0.9984	0.1691	0.7867	1.225	10.209	0.994	0.000	20.23	12	31	49	-
	200	0.9965	0.2031	0.9013	1.393	17.989	0.986	0.000	43.79	27	67	110	-
	300	0.9911	0.2249	0.9402	1.553	90.240	0.965	0.000	70.53	45	101	128	-

Notes: See notes to Table 1.

Table 29: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0258	1.001	1.213	1.000	0.880	4.13	4	5	7	1.016
	200	1.0000	0.0006	0.0243	1.001	1.183	1.000	0.885	4.13	4	5	7	1.007
	300	1.0000	0.0004	0.0224	1.001	1.204	1.000	0.894	4.12	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0124	1.001	1.106	1.000	0.942	4.06	4	5	6	1.007
	200	1.0000	0.0003	0.0130	1.001	1.115	1.000	0.936	4.07	4	5	6	1.005
	300	1.0000	0.0002	0.0114	1.001	1.123	1.000	0.945	4.06	4	5	7	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0027	1.000	1.041	1.000	0.988	4.01	4	4	6	1.002
	200	1.0000	0.0001	0.0020	1.000	1.033	1.000	0.990	4.01	4	4	5	1.002
	300	1.0000	0.0000	0.0024	1.000	1.033	1.000	0.989	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0229	1.001	1.138	1.000	0.893	4.12	4	5	7	1.002
	200	1.0000	0.0006	0.0233	1.001	1.150	1.000	0.890	4.12	4	5	7	1.002
	300	1.0000	0.0004	0.0209	1.001	1.147	1.000	0.901	4.11	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0110	1.000	1.068	1.000	0.948	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0122	1.001	1.086	1.000	0.940	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0104	1.000	1.084	1.000	0.950	4.05	4	4.5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0025	1.000	1.031	1.000	0.989	4.01	4	4	6	1.001
	200	1.0000	0.0000	0.0017	1.000	1.019	1.000	0.992	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0022	1.000	1.024	1.000	0.990	4.01	4	4	6	1.000
					Penalised regression methods								
Lasso	100	1.0000	0.0798	0.5814	1.018	2.677	1.000	0.025	11.66	5	22	46	-
	200	1.0000	0.0490	0.6263	1.022	2.956	1.000	0.020	13.61	5	27	51	-
	300	1.0000	0.0377	0.6572	1.024	3.065	1.000	0.015	15.15	6	31	57	-
Adaptive Lasso	100	1.0000	0.0028	0.0324	1.005	1.913	1.000	0.891	4.27	4	5	22	-
	200	1.0000	0.0030	0.0588	1.006	2.254	1.000	0.816	4.60	4	6	36	-
	300	1.0000	0.0037	0.0839	1.008	2.897	1.000	0.773	5.09	4	10	38	-
Sica	100	0.9994	0.0005	0.0085	1.001	1.732	0.998	0.961	4.04	4	4	8	-
	200	0.9993	0.0002	0.0059	1.001	1.759	0.997	0.972	4.03	4	4	8	-
	300	0.9983	0.0001	0.0051	1.002	2.238	0.993	0.973	4.02	4	4	8	-
Hard thresholding	100	1.0000	0.0005	0.0091	1.001	1.381	1.000	0.964	4.05	4	4	9	-
	200	1.0000	0.0002	0.0068	1.001	1.405	1.000	0.974	4.04	4	4	12	-
	300	0.9998	0.0001	0.0064	1.001	1.576	0.999	0.974	4.04	4	4	10	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3390	0.8881	1.039	5.271	1.000	0.000	36.54	28	46	56	-
	200	1.0000	0.3290	0.9411	1.076	8.814	1.000	0.000	68.48	58	77	85	-
	300	1.0000	0.2768	0.9533	1.088	9.802	1.000	0.000	85.94	78	94	102	-
$v = 1$	100	1.0000	0.1457	0.7653	1.075	10.277	1.000	0.000	17.99	12	26	44	-
	200	1.0000	0.1520	0.8767	1.147	18.824	1.000	0.000	33.80	24	46	73	-
	300	1.0000	0.1632	0.9207	1.212	26.798	1.000	0.000	52.31	38	70	99	-

Notes: See notes to Table 1.

Table 30: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
				OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0192	1.000	1.136	1.000	0.909	4.10	4	5	7	1.005
	200	1.0000	0.0006	0.0238	1.001	1.192	1.000	0.889	4.12	4	5	7	1.005
	300	1.0000	0.0004	0.0224	1.001	1.206	1.000	0.895	4.12	4	5	7	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0094	1.000	1.080	1.000	0.955	4.05	4	4	7	1.003
	200	1.0000	0.0003	0.0127	1.000	1.115	1.000	0.939	4.07	4	5	7	1.003
	300	1.0000	0.0002	0.0113	1.000	1.116	1.000	0.946	4.06	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0014	1.000	1.011	1.000	0.993	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0031	1.000	1.041	1.000	0.985	4.02	4	4	6	1.002
	300	1.0000	0.0001	0.0030	1.000	1.047	1.000	0.985	4.02	4	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0182	1.000	1.106	1.000	0.914	4.09	4	5	7	1.000
	200	1.0000	0.0006	0.0230	1.001	1.162	1.000	0.892	4.12	4	5	7	1.001
	300	1.0000	0.0004	0.0217	1.001	1.174	1.000	0.898	4.11	4	5	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0088	1.000	1.059	1.000	0.958	4.05	4	4	7	1.000
	200	1.0000	0.0003	0.0123	1.000	1.088	1.000	0.941	4.06	4	5	7	1.001
	300	1.0000	0.0002	0.0110	1.000	1.088	1.000	0.948	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0014	1.000	1.011	1.000	0.993	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0027	1.000	1.020	1.000	0.987	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0028	1.000	1.035	1.000	0.986	4.01	4	4	5	1.001
				Penalised regression methods									
Lasso	100	1.0000	0.0765	0.5700	1.011	2.689	1.000	0.026	11.35	5	20	39	-
	200	1.0000	0.0469	0.6120	1.014	3.014	1.000	0.027	13.19	5	27	59	-
	300	1.0000	0.0365	0.6425	1.016	3.196	1.000	0.022	14.80	5	30	56	-
Adaptive Lasso	100	1.0000	0.0017	0.0148	1.003	1.802	1.000	0.963	4.17	4	4	20	-
	200	1.0000	0.0038	0.0504	1.004	2.494	1.000	0.907	4.75	4	11	32	-
	300	1.0000	0.0040	0.0745	1.005	2.992	1.000	0.863	5.19	4	15	39	-
Sica	100	1.0000	0.0001	0.0022	1.000	1.220	1.000	0.991	4.01	4	4	7	-
	200	1.0000	0.0001	0.0021	1.000	1.226	1.000	0.990	4.01	4	4	6	-
	300	1.0000	0.0000	0.0016	1.000	1.243	1.000	0.994	4.01	4	4	6	-
Hard thresholding	100	1.0000	0.0005	0.0079	1.000	1.356	1.000	0.970	4.05	4	4	8	-
	200	1.0000	0.0001	0.0048	1.000	1.337	1.000	0.981	4.03	4	4	8	-
	300	1.0000	0.0001	0.0050	1.000	1.425	1.000	0.981	4.03	4	4	8	-
				Boosting methods									
$v = 0.1$	100	1.0000	0.3356	0.8873	1.022	5.205	1.000	0.000	36.22	28	45	56	-
	200	1.0000	0.3298	0.9412	1.043	8.908	1.000	0.000	68.65	57	78	86	-
	300	1.0000	0.2860	0.9547	1.053	10.391	1.000	0.000	88.64	81	97	109	-
$v = 1$	100	1.0000	0.1388	0.7571	1.043	10.189	1.000	0.000	17.32	11	24	34	-
	200	1.0000	0.1426	0.8703	1.086	19.211	1.000	0.000	31.95	23	42	59	-
	300	1.0000	0.1486	0.9141	1.129	27.934	1.000	0.000	48.00	35	62	91	-

Notes: See notes to Table 1.

Table 31: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9403	0.0016	0.0316	1.018	2.093	0.788	0.678	3.92	3	5	7	1.012
	200	0.9119	0.0008	0.0325	1.028	2.657	0.711	0.614	3.81	2	5	7	1.011
	300	0.9033	0.0006	0.0367	1.031	2.777	0.686	0.573	3.79	2	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9181	0.0008	0.0171	1.022	2.276	0.718	0.662	3.75	3	5	7	1.006
	200	0.8845	0.0004	0.0177	1.032	2.940	0.639	0.591	3.62	2	4	6	1.007
	300	0.8714	0.0003	0.0205	1.036	3.076	0.599	0.543	3.58	2	5	7	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8394	0.0002	0.0048	1.041	3.199	0.522	0.509	3.38	2	4	6	1.005
	200	0.8000	0.0001	0.0052	1.055	3.911	0.445	0.437	3.22	2	4	6	1.007
	300	0.7781	0.0001	0.0056	1.061	4.158	0.403	0.396	3.14	1	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9399	0.0015	0.0298	1.018	2.065	0.788	0.683	3.91	3	5	7	1.002
	200	0.9115	0.0008	0.0310	1.027	2.627	0.710	0.617	3.80	2	5	7	1.002
	300	0.9028	0.0006	0.0355	1.030	2.761	0.685	0.575	3.78	2	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9179	0.0008	0.0162	1.021	2.263	0.717	0.665	3.75	3	5	6	1.000
	200	0.8841	0.0004	0.0166	1.032	2.920	0.638	0.593	3.61	2	4	6	1.001
	300	0.8706	0.0003	0.0200	1.036	3.077	0.598	0.543	3.57	2	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8385	0.0002	0.0046	1.041	3.204	0.520	0.508	3.38	2	4	6	1.000
	200	0.7991	0.0001	0.0044	1.056	3.907	0.445	0.437	3.21	2	4	6	1.000
	300	0.7778	0.0001	0.0055	1.062	4.161	0.402	0.396	3.13	1	4	6	1.001
Penalised regression methods													
Lasso	100	0.9880	0.0774	0.5688	1.061	2.679	0.953	0.036	11.38	5	22	40	-
	200	0.9868	0.0554	0.6490	1.076	3.246	0.951	0.015	14.81	5	30	65	-
	300	0.9834	0.0468	0.6933	1.085	3.545	0.937	0.016	17.78	5	38	67	-
Adaptive Lasso	100	0.9031	0.0133	0.1713	1.060	3.379	0.673	0.289	4.88	3	9	21	-
	200	0.9045	0.0122	0.2554	1.072	3.997	0.687	0.214	6.00	2	13	43	-
	300	0.9061	0.0128	0.3371	1.082	4.564	0.684	0.151	7.42	3	18	52	-
Sica	100	0.7131	0.0058	0.1049	1.100	5.656	0.222	0.108	3.41	2	6	16	-
	200	0.6551	0.0029	0.1085	1.125	6.815	0.133	0.057	3.18	1	6	14	-
	300	0.6206	0.0018	0.1125	1.137	7.311	0.097	0.044	3.03	1	6	14	-
Hard thresholding	100	0.7181	0.0037	0.0675	1.091	5.334	0.227	0.146	3.23	2	5	13	-
	200	0.6781	0.0025	0.0907	1.115	6.479	0.163	0.090	3.21	1	6	14	-
	300	0.6594	0.0017	0.0977	1.123	6.810	0.146	0.078	3.14	1	6	13	-
Boosting methods													
$v = 0.1$	100	0.9971	0.3448	0.8896	1.138	5.761	0.989	0.000	37.09	28	47	55	-
	200	0.9976	0.3082	0.9378	1.208	8.515	0.991	0.000	64.40	58	71	78	-
	300	0.9948	0.2401	0.9468	1.216	8.610	0.979	0.000	75.05	68	83	91	-
$v = 1$	100	0.9464	0.1680	0.7948	1.237	10.835	0.795	0.000	19.91	12	30	54	-
	200	0.9199	0.2056	0.9096	1.407	19.324	0.695	0.000	43.98	27	68	94	-
	300	0.8921	0.2269	0.9468	1.521	28.590	0.606	0.000	70.73	45	101.5	131	-

Notes: See notes to Table 1.

Table 32: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0245	1.002	1.293	1.000	0.885	4.13	4	5	7	1.011
	200	1.0000	0.0006	0.0227	1.002	1.269	1.000	0.890	4.12	4	5	7	1.006
	300	1.0000	0.0005	0.0275	1.002	1.340	1.000	0.870	4.14	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0126	1.001	1.173	1.000	0.940	4.06	4	5	7	1.005
	200	1.0000	0.0003	0.0122	1.001	1.172	1.000	0.940	4.06	4	5	6	1.004
	300	1.0000	0.0002	0.0142	1.001	1.210	1.000	0.932	4.07	4	5	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0029	1.000	1.056	1.000	0.986	4.01	4	4	5	1.002
	200	1.0000	0.0001	0.0024	1.000	1.038	1.000	0.988	4.01	4	4	5	1.001
	300	1.0000	0.0001	0.0031	1.000	1.055	1.000	0.985	4.02	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0226	1.002	1.233	1.000	0.893	4.12	4	5	6	1.001
	200	1.0000	0.0006	0.0215	1.001	1.234	1.000	0.896	4.11	4	5	7	1.000
	300	1.0000	0.0005	0.0260	1.001	1.287	1.000	0.877	4.13	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0118	1.001	1.138	1.000	0.944	4.06	4	5	6	1.000
	200	1.0000	0.0003	0.0114	1.001	1.146	1.000	0.944	4.06	4	5	6	1.000
	300	1.0000	0.0002	0.0134	1.001	1.183	1.000	0.936	4.07	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0026	1.000	1.042	1.000	0.987	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0023	1.000	1.034	1.000	0.989	4.01	4	4	5	1.000
	300	1.0000	0.0001	0.0030	1.000	1.051	1.000	0.985	4.02	4	4	5	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0809	0.5902	1.019	2.579	1.000	0.022	11.77	5	22	40	-
	200	1.0000	0.0506	0.6350	1.023	2.952	1.000	0.020	13.93	5	28	58	-
	300	1.0000	0.0393	0.6705	1.025	3.117	1.000	0.015	15.64	6	31	57	-
Adaptive Lasso	100	0.9998	0.0054	0.0777	1.009	2.145	0.999	0.735	4.52	4	7	25	-
	200	1.0000	0.0049	0.1224	1.009	2.313	1.000	0.643	4.96	4	9	39	-
	300	0.9993	0.0046	0.1592	1.010	2.588	0.997	0.564	5.35	4	10	50	-
Sica	100	0.9851	0.0020	0.0327	1.008	2.973	0.941	0.813	4.13	3	5	10	-
	200	0.9788	0.0007	0.0235	1.008	3.398	0.916	0.825	4.05	3	5	9	-
	300	0.9715	0.0005	0.0243	1.010	3.804	0.889	0.793	4.03	3	5	10	-
Hard thresholding	100	0.9860	0.0010	0.0168	1.005	2.839	0.945	0.877	4.04	3	5	13	-
	200	0.9823	0.0004	0.0135	1.006	3.151	0.932	0.878	4.01	3	5	8	-
	300	0.9785	0.0003	0.0149	1.007	3.325	0.918	0.858	4.00	3	5	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3380	0.8879	1.041	5.331	1.000	0.000	36.45	28	45	55	-
	200	1.0000	0.3310	0.9414	1.075	9.168	1.000	0.000	68.87	57.5	78	86	-
	300	1.0000	0.2796	0.9538	1.088	10.262	1.000	0.000	86.76	79	95	102	-
$v = 1$	100	1.0000	0.1493	0.7700	1.079	10.748	1.000	0.000	18.34	12	26	36	-
	200	1.0000	0.1546	0.8786	1.146	19.546	1.000	0.000	34.30	24	47	64	-
	300	1.0000	0.1635	0.9209	1.210	27.559	1.000	0.000	52.40	38	71	109	-

Notes: See notes to Table 1.

Table 33: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0234	1.001	1.265	1.000	0.891	4.12	4	5	6	1.008
	200	1.0000	0.0006	0.0212	1.001	1.253	1.000	0.900	4.11	4	5	6	1.008
	300	1.0000	0.0004	0.0211	1.001	1.264	1.000	0.900	4.11	4	5	6	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0116	1.000	1.155	1.000	0.945	4.06	4	5	6	1.005
	200	1.0000	0.0002	0.0096	1.000	1.139	1.000	0.953	4.05	4	4	6	1.004
	300	1.0000	0.0002	0.0107	1.001	1.159	1.000	0.948	4.05	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0021	1.000	1.036	1.000	0.990	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0022	1.000	1.047	1.000	0.989	4.01	4	4	5	1.002
	300	1.0000	0.0000	0.0022	1.000	1.041	1.000	0.990	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0218	1.001	1.220	1.000	0.899	4.11	4	5	6	1.000
	200	1.0000	0.0005	0.0200	1.001	1.210	1.000	0.905	4.10	4	5	6	1.002
	300	1.0000	0.0003	0.0200	1.001	1.222	1.000	0.906	4.10	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0106	1.000	1.120	1.000	0.950	4.05	4	5	6	1.000
	200	1.0000	0.0002	0.0090	1.000	1.109	1.000	0.956	4.05	4	4	6	1.001
	300	1.0000	0.0002	0.0101	1.000	1.129	1.000	0.951	4.05	4	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0020	1.000	1.031	1.000	0.990	4.01	4	4	5	1.000
	200	1.0000	0.0000	0.0019	1.000	1.032	1.000	0.991	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0021	1.000	1.031	1.000	0.990	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0798	0.5842	1.011	2.535	1.000	0.031	11.66	5	22	35	-
	200	1.0000	0.0480	0.6236	1.013	2.874	1.000	0.019	13.41	5	25	44	-
	300	1.0000	0.0357	0.6431	1.015	3.050	1.000	0.015	14.57	5	29.5	61	-
Adaptive Lasso	100	1.0000	0.0030	0.0446	1.004	1.786	1.000	0.836	4.29	4	6	21	-
	200	1.0000	0.0032	0.0736	1.004	2.185	1.000	0.759	4.62	4	7	40	-
	300	1.0000	0.0028	0.0946	1.004	2.390	1.000	0.694	4.82	4	7	40	-
Sica	100	0.9985	0.0008	0.0130	1.001	1.879	0.994	0.942	4.07	4	5	10	-
	200	0.9978	0.0003	0.0102	1.001	2.048	0.991	0.948	4.05	4	4	8	-
	300	0.9961	0.0002	0.0098	1.002	2.451	0.985	0.943	4.04	4	4	9	-
Hard thresholding	100	0.9991	0.0007	0.0116	1.001	1.620	0.997	0.951	4.06	4	4	8	-
	200	0.9994	0.0002	0.0082	1.001	1.525	0.998	0.964	4.04	4	4	7	-
	300	0.9979	0.0002	0.0085	1.001	2.027	0.992	0.957	4.04	4	4	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3355	0.8872	1.022	5.160	1.000	0.000	36.20	28	45	56	-
	200	1.0000	0.3314	0.9414	1.043	8.778	1.000	0.000	68.96	57	79	88	-
	300	1.0000	0.2897	0.9553	1.054	10.452	1.000	0.000	89.74	82	98	107	-
$v = 1$	100	1.0000	0.1452	0.7648	1.045	10.510	1.000	0.000	17.93	12	25	35	-
	200	1.0000	0.1458	0.8727	1.088	19.272	1.000	0.000	32.57	23	43	58	-
	300	1.0000	0.1506	0.9153	1.131	28.331	1.000	0.000	48.58	36	62	90	-

Notes: See notes to Table 1.

Table 34: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6516	0.0015	0.0419	1.046	2.894	0.232	0.193	2.75	1	4	7	1.010
	200	0.5796	0.0009	0.0548	1.058	3.292	0.155	0.128	2.49	0	4	6	1.007
	300	0.5389	0.0006	0.0644	1.068	3.574	0.128	0.108	2.33	0	4	6	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5831	0.0008	0.0269	1.055	3.154	0.168	0.147	2.41	1	4	6	1.008
	200	0.5129	0.0005	0.0343	1.067	3.503	0.106	0.093	2.15	0	4	6	1.004
	300	0.4760	0.0003	0.0371	1.075	3.735	0.083	0.078	2.00	0	4	5	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4321	0.0002	0.0074	1.080	3.754	0.058	0.057	1.74	0	4	5	1.003
	200	0.3716	0.0001	0.0104	1.090	4.035	0.042	0.039	1.51	0	3	5	1.001
	300	0.3346	0.0001	0.0124	1.098	4.217	0.025	0.024	1.36	0	3	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6516	0.0014	0.0400	1.046	2.866	0.232	0.196	2.74	1	4	7	1.002
	200	0.5796	0.0008	0.0536	1.057	3.272	0.155	0.130	2.48	0	4	6	1.001
	300	0.5389	0.0006	0.0639	1.068	3.565	0.128	0.108	2.33	0	4	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5831	0.0008	0.0254	1.054	3.136	0.168	0.150	2.41	1	4	6	1.001
	200	0.5129	0.0005	0.0334	1.067	3.487	0.106	0.094	2.14	0	4	6	1.001
	300	0.4759	0.0003	0.0369	1.074	3.733	0.083	0.078	2.00	0	4	5	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4319	0.0002	0.0071	1.079	3.749	0.058	0.058	1.74	0	4	5	1.000
	200	0.3716	0.0001	0.0101	1.090	4.029	0.042	0.039	1.51	0	3	5	1.000
	300	0.3346	0.0001	0.0124	1.098	4.217	0.025	0.024	1.36	0	3	5	1.000
Penalised regression methods													
Lasso	100	0.8738	0.0684	0.5593	1.055	2.337	0.586	0.023	10.07	3	21	39	-
	200	0.8438	0.0503	0.6487	1.068	2.739	0.501	0.011	13.24	4	29	52	-
	300	0.8361	0.0402	0.6906	1.076	2.950	0.495	0.007	15.24	4	34	77	-
Adaptive Lasso	100	0.6746	0.0171	0.2501	1.062	3.123	0.201	0.045	4.34	1	10	24	-
	200	0.6624	0.0161	0.3685	1.079	3.936	0.191	0.018	5.80	1	15	35	-
	300	0.6661	0.0147	0.4406	1.092	4.531	0.195	0.016	7.01	1	18	65	-
Sica	100	0.4580	0.0080	0.1833	1.101	5.230	0.010	0.002	2.60	1	6	13	-
	200	0.3984	0.0042	0.2099	1.117	5.908	0.003	0.000	2.41	1	6	12	-
	300	0.3676	0.0028	0.2253	1.128	6.307	0.001	0.000	2.30	1	5	15	-
Hard thresholding	100	0.4559	0.0061	0.1487	1.095	4.996	0.012	0.004	2.41	1	5	13	-
	200	0.4080	0.0040	0.1994	1.114	5.848	0.007	0.001	2.42	1	6	16	-
	300	0.3754	0.0028	0.2196	1.125	6.286	0.003	0.001	2.32	1	5	16	-
Boosting methods													
$v = 0.1$	100	0.9584	0.3455	0.8936	1.133	5.855	0.843	0.000	37.00	28	47	54	-
	200	0.9433	0.3116	0.9416	1.208	8.336	0.787	0.000	64.86	57.5	72	79	-
	300	0.9320	0.2427	0.9505	1.215	8.431	0.749	0.000	75.55	68	83	93	-
$v = 1$	100	0.7720	0.1669	0.8265	1.234	11.170	0.280	0.000	19.11	11	30	53	-
	200	0.7365	0.2049	0.9265	1.402	18.454	0.223	0.000	43.11	26	68	99	-
	300	0.7248	0.2249	0.9560	1.685	>100	0.223	0.000	69.46	44	100.5	130	-

Notes: See notes to Table 1.

Table 35: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9983	0.0013	0.0236	1.002	1.350	0.993	0.887	4.12	4	5	7	1.003
	200	0.9971	0.0006	0.0232	1.002	1.429	0.989	0.879	4.11	4	5	8	1.003
	300	0.9969	0.0004	0.0228	1.002	1.472	0.988	0.882	4.10	4	5	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9971	0.0006	0.0118	1.001	1.260	0.989	0.936	4.05	4	5	7	1.002
	200	0.9951	0.0003	0.0131	1.002	1.356	0.981	0.918	4.05	4	5	6	1.003
	300	0.9945	0.0002	0.0117	1.002	1.388	0.978	0.924	4.04	4	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9908	0.0001	0.0021	1.001	1.304	0.965	0.955	3.97	4	4	6	1.001
	200	0.9865	0.0001	0.0029	1.002	1.449	0.949	0.935	3.96	3	4	6	1.001
	300	0.9858	0.0000	0.0021	1.001	1.453	0.947	0.937	3.95	3	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9983	0.0013	0.0231	1.002	1.331	0.993	0.889	4.11	4	5	7	1.000
	200	0.9971	0.0006	0.0228	1.002	1.415	0.989	0.881	4.11	4	5	8	1.001
	300	0.9969	0.0004	0.0223	1.002	1.457	0.988	0.884	4.10	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9971	0.0006	0.0116	1.001	1.244	0.989	0.937	4.05	4	5	6	1.000
	200	0.9951	0.0003	0.0126	1.001	1.341	0.981	0.921	4.04	4	5	6	1.000
	300	0.9945	0.0002	0.0114	1.001	1.372	0.978	0.926	4.04	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9908	0.0001	0.0020	1.001	1.301	0.965	0.956	3.97	4	4	6	1.000
	200	0.9865	0.0001	0.0028	1.002	1.445	0.949	0.935	3.96	3	4	6	1.000
	300	0.9858	0.0000	0.0021	1.001	1.453	0.947	0.937	3.95	3	4	5	1.000
Penalised regression methods													
Lasso	100	0.9991	0.0777	0.5714	1.019	2.496	0.997	0.041	11.46	5	22	36	-
	200	0.9981	0.0499	0.6288	1.022	2.848	0.993	0.023	13.78	5	27	49	-
	300	0.9985	0.0381	0.6573	1.025	3.038	0.994	0.020	15.28	6	31	57	-
Adaptive Lasso	100	0.9623	0.0088	0.1229	1.016	2.973	0.863	0.507	4.70	3	8	18	-
	200	0.9625	0.0086	0.2027	1.017	3.214	0.863	0.360	5.54	3	11	29	-
	300	0.9679	0.0077	0.2410	1.019	3.550	0.881	0.337	6.14	3	13	41	-
Sica	100	0.8381	0.0050	0.0810	1.024	4.768	0.456	0.268	3.83	2	6.5	15	-
	200	0.7880	0.0019	0.0715	1.031	5.644	0.340	0.203	3.53	2	6	10	-
	300	0.7576	0.0013	0.0684	1.036	6.107	0.256	0.154	3.40	2	6	13	-
Hard thresholding	100	0.8359	0.0023	0.0408	1.022	4.533	0.461	0.342	3.57	2	5	11	-
	200	0.7980	0.0011	0.0416	1.027	5.250	0.362	0.269	3.41	2	5	15	-
	300	0.7726	0.0007	0.0405	1.031	5.624	0.301	0.218	3.30	2	5	11	-
Boosting methods													
$v = 0.1$	100	0.9996	0.3343	0.8867	1.039	5.093	0.999	0.000	36.09	28	45	55	-
	200	0.9999	0.3315	0.9415	1.075	9.039	1.000	0.000	68.97	58	79	87	-
	300	0.9996	0.2835	0.9544	1.091	10.322	0.999	0.000	87.91	80	96	106	-
$v = 1$	100	0.9939	0.1442	0.7637	1.075	10.264	0.976	0.000	17.82	11	25	37	-
	200	0.9886	0.1525	0.8783	1.147	19.422	0.955	0.000	33.84	24	46	66	-
	300	0.9859	0.1632	0.9216	1.214	27.929	0.944	0.000	52.25	37	71	118	-

Notes: See notes to Table 1.

Table 36: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0232	1.001	1.348	1.000	0.891	4.12	4	5	6	1.010
	200	1.0000	0.0006	0.0211	1.001	1.310	1.000	0.901	4.11	4	5	7	1.003
	300	1.0000	0.0003	0.0194	1.001	1.322	1.000	0.907	4.10	4	5	6	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0112	1.001	1.201	1.000	0.946	4.06	4	5	6	1.005
	200	1.0000	0.0003	0.0099	1.001	1.172	1.000	0.953	4.05	4	4	7	1.001
	300	1.0000	0.0002	0.0088	1.001	1.181	1.000	0.957	4.04	4	4	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0029	1.000	1.066	1.000	0.986	4.01	4	4	5	1.001
	200	0.9998	0.0001	0.0022	1.000	1.077	0.999	0.988	4.01	4	4	5	1.001
	300	0.9999	0.0000	0.0014	1.000	1.054	1.000	0.993	4.01	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0214	1.001	1.289	1.000	0.899	4.11	4	5	6	1.001
	200	1.0000	0.0005	0.0205	1.001	1.294	1.000	0.904	4.11	4	5	7	1.000
	300	1.0000	0.0003	0.0188	1.001	1.301	1.000	0.910	4.10	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0103	1.001	1.167	1.000	0.950	4.05	4	4.5	6	1.000
	200	1.0000	0.0003	0.0097	1.000	1.166	1.000	0.954	4.05	4	4	7	1.000
	300	1.0000	0.0001	0.0085	1.000	1.168	1.000	0.958	4.04	4	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0028	1.000	1.060	1.000	0.986	4.01	4	4	5	1.000
	200	0.9998	0.0001	0.0021	1.000	1.073	0.999	0.989	4.01	4	4	5	1.000
	300	0.9999	0.0000	0.0013	1.000	1.049	1.000	0.993	4.01	4	4	5	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0816	0.5879	1.011	2.469	1.000	0.026	11.84	5	22	40	-
	200	1.0000	0.0497	0.6355	1.013	2.759	1.000	0.015	13.75	6	26	44	-
	300	1.0000	0.0376	0.6567	1.015	2.989	1.000	0.017	15.12	6	30	89	-
Adaptive Lasso	100	0.9969	0.0069	0.0965	1.006	2.312	0.988	0.672	4.65	4	7	19	-
	200	0.9971	0.0060	0.1456	1.007	2.555	0.989	0.577	5.16	4	9	26	-
	300	0.9970	0.0054	0.1867	1.007	2.733	0.988	0.488	5.59	4	11	38	-
Sica	100	0.9588	0.0034	0.0535	1.007	3.548	0.839	0.651	4.16	3	6	13	-
	200	0.9388	0.0012	0.0415	1.009	4.057	0.764	0.609	3.99	3	5	11	-
	300	0.9205	0.0007	0.0356	1.011	4.668	0.702	0.569	3.88	3	5	9	-
Hard thresholding	100	0.9513	0.0017	0.0274	1.007	3.605	0.813	0.710	3.96	3	5	11	-
	200	0.9425	0.0007	0.0242	1.008	3.874	0.783	0.690	3.90	3	5	8	-
	300	0.9301	0.0004	0.0211	1.009	4.321	0.739	0.656	3.84	3	5	10	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3327	0.8862	1.023	4.960	1.000	0.000	35.94	28	44	56	-
	200	1.0000	0.3313	0.9414	1.044	8.619	1.000	0.000	68.93	57	79	87	-
	300	1.0000	0.2927	0.9557	1.054	10.416	1.000	0.000	90.65	83	99	107	-
$v = 1$	100	0.9998	0.1444	0.7642	1.045	10.338	0.999	0.000	17.86	12	25	40	-
	200	1.0000	0.1457	0.8726	1.089	18.966	1.000	0.000	32.56	23	44	56	-
	300	0.9999	0.1503	0.9150	1.129	27.747	1.000	0.000	48.49	36	63	84	-

Notes: See notes to Table 1.

Table 37: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
				OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0017	0.0314	1.005	1.051	1.000	0.856	4.16	4	5	7	1.018
	200	1.0000	0.0009	0.0337	1.005	1.051	1.000	0.845	4.18	4	5	7	1.019
	300	1.0000	0.0006	0.0370	1.006	1.057	1.000	0.829	4.19	4	5	7	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0169	1.003	1.031	1.000	0.921	4.09	4	5	7	1.011
	200	1.0000	0.0005	0.0176	1.003	1.031	1.000	0.916	4.09	4	5	6	1.012
	300	1.0000	0.0003	0.0200	1.004	1.039	1.000	0.905	4.10	4	5	6	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0038	1.001	1.013	1.000	0.981	4.02	4	4	5	1.003
	200	1.0000	0.0001	0.0050	1.001	1.009	1.000	0.976	4.03	4	4	6	1.003
	300	1.0000	0.0001	0.0057	1.001	1.013	1.000	0.972	4.03	4	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0287	1.003	1.032	1.000	0.867	4.15	4	5	7	1.003
	200	1.0000	0.0008	0.0305	1.004	1.034	1.000	0.860	4.16	4	5	7	1.002
	300	1.0000	0.0006	0.0350	1.005	1.046	1.000	0.837	4.18	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0152	1.002	1.019	1.000	0.928	4.08	4	5	7	1.002
	200	1.0000	0.0004	0.0156	1.002	1.018	1.000	0.926	4.08	4	5	6	1.001
	300	1.0000	0.0003	0.0184	1.003	1.029	1.000	0.912	4.09	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0033	1.001	1.005	1.000	0.984	4.02	4	4	5	1.001
	200	1.0000	0.0001	0.0044	1.001	1.005	1.000	0.979	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0051	1.001	1.007	1.000	0.975	4.03	4	4	6	1.000
				Penalised regression methods									
Lasso	100	0.9561	0.0428	0.3926	1.035	1.025	0.829	0.150	7.94	4	17	37	-
	200	0.9553	0.0320	0.4787	1.040	1.057	0.824	0.100	10.09	4	23	63	-
	300	0.9538	0.0269	0.5305	1.047	1.096	0.819	0.090	11.78	4	28	65	-
Adaptive Lasso	100	0.7096	0.0052	0.0795	1.047	2.676	0.184	0.109	3.34	2	6	22	-
	200	0.7248	0.0063	0.1383	1.051	2.722	0.197	0.085	4.13	2	9	44	-
	300	0.7368	0.0070	0.1919	1.060	2.652	0.225	0.065	5.02	2	16	51	-
Sica	100	0.2656	0.0020	0.0455	1.146	7.466	0.000	0.000	1.25	1	3	16	-
	200	0.2549	0.0005	0.0255	1.147	7.954	0.000	0.000	1.11	1	2	12	-
	300	0.2518	0.0002	0.0192	1.149	7.727	0.000	0.000	1.06	1	1	9	-
Hard thresholding	100	0.2606	0.0005	0.0106	1.143	7.471	0.000	0.000	1.09	1	1	10	-
	200	0.2574	0.0005	0.0166	1.145	7.910	0.000	0.000	1.12	1	1	17	-
	300	0.2540	0.0002	0.0121	1.148	7.683	0.000	0.000	1.07	1	1	11	-
				Boosting methods									
$v = 0.1$	100	0.9691	0.3457	0.8925	1.125	2.042	0.879	0.000	37.06	27	48	54	-
	200	0.9694	0.3130	0.9403	1.195	2.767	0.878	0.000	65.23	58	72	79	-
	300	0.9651	0.2437	0.9490	1.198	2.707	0.862	0.000	75.99	69	84	90	-
$v = 1$	100	0.6430	0.1912	0.8681	1.312	7.711	0.106	0.000	20.93	12	34	49	-
	200	0.5590	0.2121	0.9455	1.486	11.351	0.037	0.000	43.80	26	70	98	-
	300	0.5090	0.2310	0.9697	16.763	>100	0.011	0.000	70.41	45	100	125	-

Notes: See notes to Table 1.

Table 38: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0228	1.001	1.029	1.000	0.893	4.12	4	5	6	1.008
	200	1.0000	0.0006	0.0233	1.001	1.033	1.000	0.891	4.12	4	5	8	1.009
	300	1.0000	0.0004	0.0232	1.001	1.032	1.000	0.891	4.12	4	5	6	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0113	1.000	1.013	1.000	0.945	4.06	4	5	6	1.004
	200	1.0000	0.0003	0.0111	1.001	1.016	1.000	0.947	4.06	4	5	6	1.004
	300	1.0000	0.0002	0.0118	1.001	1.019	1.000	0.943	4.06	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0022	1.000	1.003	1.000	0.989	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0023	1.000	1.004	1.000	0.989	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0024	1.000	1.006	1.000	0.989	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0212	1.001	1.022	1.000	0.901	4.11	4	5	6	1.000
	200	1.0000	0.0006	0.0218	1.001	1.025	1.000	0.898	4.11	4	5	7	1.001
	300	1.0000	0.0004	0.0224	1.001	1.027	1.000	0.895	4.12	4	5	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0106	1.000	1.011	1.000	0.949	4.05	4	5	6	1.000
	200	1.0000	0.0003	0.0106	1.001	1.013	1.000	0.950	4.05	4	5	6	1.001
	300	1.0000	0.0002	0.0112	1.001	1.015	1.000	0.946	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0022	1.000	1.003	1.000	0.989	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0023	1.000	1.004	1.000	0.989	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0022	1.000	1.004	1.000	0.990	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.9991	0.0392	0.3706	1.011	1.141	0.997	0.202	7.76	4	16	33	-
	200	0.9995	0.0254	0.4219	1.014	1.180	0.998	0.156	8.98	4	20	57	-
	300	0.9993	0.0198	0.4458	1.014	1.202	0.997	0.153	9.84	4	24	44	-
Adaptive Lasso	100	0.9290	0.0025	0.0264	1.017	3.389	0.726	0.658	3.96	3	5	26	-
	200	0.9360	0.0035	0.0555	1.018	3.382	0.752	0.641	4.43	3	9	37	-
	300	0.9335	0.0038	0.0777	1.021	3.420	0.743	0.598	4.85	3	13	36	-
Sica	100	0.4665	0.0082	0.1406	1.094	15.446	0.009	0.001	2.65	1	7	15	-
	200	0.3876	0.0019	0.0867	1.112	18.718	0.000	0.000	1.93	1	5	12	-
	300	0.3605	0.0008	0.0573	1.119	19.352	0.000	0.000	1.68	1	4	10	-
Hard thresholding	100	0.5305	0.0012	0.0216	1.094	17.110	0.220	0.165	2.23	1	5	8	-
	200	0.4911	0.0005	0.0179	1.098	18.404	0.126	0.091	2.06	1	4	10	-
	300	0.4545	0.0002	0.0139	1.104	18.895	0.089	0.070	1.89	1	4	8	-
Boosting methods													
$v = 0.1$	100	0.9995	0.3315	0.8858	1.036	1.988	0.998	0.000	35.82	27	45	57	-
	200	0.9998	0.3316	0.9415	1.073	3.146	0.999	0.000	69.00	57	78	89	-
	300	0.9996	0.2877	0.9550	1.088	3.526	0.999	0.000	89.14	81	97	104	-
$v = 1$	100	0.9864	0.1723	0.7953	1.100	6.910	0.946	0.000	20.49	13	30	44	-
	200	0.9684	0.1668	0.8892	1.178	11.113	0.875	0.000	36.56	25	51	77	-
	300	0.9504	0.1738	0.9285	1.251	14.482	0.806	0.000	55.25	39	77	99	-

Notes: See notes to Table 1.

Table 39: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0237	1.001	1.035	1.000	0.887	4.12	4	5	6	1.013
	200	1.0000	0.0007	0.0249	1.001	1.034	1.000	0.882	4.13	4	5	7	1.008
	300	1.0000	0.0003	0.0197	1.001	1.036	1.000	0.906	4.10	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0107	1.000	1.018	1.000	0.948	4.05	4	5	6	1.006
	200	1.0000	0.0003	0.0125	1.000	1.020	1.000	0.940	4.06	4	5	6	1.004
	300	1.0000	0.0002	0.0105	1.000	1.021	1.000	0.949	4.05	4	5	6	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0023	1.000	1.004	1.000	0.989	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0034	1.000	1.009	1.000	0.983	4.02	4	4	5	1.002
	300	1.0000	0.0000	0.0021	1.000	1.004	1.000	0.990	4.01	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0213	1.000	1.023	1.000	0.899	4.11	4	5	6	1.001
	200	1.0000	0.0006	0.0237	1.001	1.028	1.000	0.887	4.12	4	5	7	1.001
	300	1.0000	0.0003	0.0181	1.001	1.024	1.000	0.913	4.09	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0097	1.000	1.013	1.000	0.953	4.05	4	4	6	1.001
	200	1.0000	0.0003	0.0118	1.000	1.016	1.000	0.943	4.06	4	5	6	1.000
	300	1.0000	0.0002	0.0096	1.000	1.014	1.000	0.953	4.05	4	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0021	1.000	1.003	1.000	0.990	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0031	1.000	1.006	1.000	0.985	4.02	4	4	5	1.000
	300	1.0000	0.0000	0.0019	1.000	1.003	1.000	0.991	4.01	4	4	5	1.000
					Penalised regression methods								
Lasso	100	1.0000	0.0395	0.3739	1.007	1.152	1.000	0.197	7.79	4	17.5	29	-
	200	1.0000	0.0252	0.4095	1.009	1.174	1.000	0.185	8.94	4	18	51	-
	300	1.0000	0.0181	0.4241	1.010	1.192	1.000	0.169	9.36	4	20	57	-
Adaptive Lasso	100	0.9778	0.0026	0.0246	1.010	3.309	0.912	0.859	4.16	3	5	20	-
	200	0.9799	0.0039	0.0596	1.010	3.162	0.920	0.816	4.69	3	10	33	-
	300	0.9840	0.0038	0.0851	1.012	3.158	0.937	0.795	5.06	3	13	41	-
Sica	100	0.6859	0.0129	0.1881	1.046	13.389	0.128	0.016	3.98	1	9	22	-
	200	0.5998	0.0037	0.1365	1.059	16.991	0.028	0.007	3.13	1	6	16	-
	300	0.5454	0.0018	0.1037	1.069	19.854	0.008	0.001	2.70	1	6	11	-
Hard thresholding	100	0.8056	0.0010	0.0167	1.040	17.242	0.640	0.571	3.31	1	5	10	-
	200	0.7948	0.0004	0.0144	1.040	17.559	0.608	0.549	3.26	1	5	8	-
	300	0.7811	0.0003	0.0141	1.041	18.121	0.560	0.510	3.20	1	5	9	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3288	0.8851	1.021	1.964	1.000	0.000	35.56	27	44	56	-
	200	1.0000	0.3310	0.9413	1.043	2.961	1.000	0.000	68.88	57	80	88	-
	300	1.0000	0.2977	0.9565	1.054	3.526	1.000	0.000	92.13	84	100	109	-
$v = 1$	100	0.9995	0.1657	0.7878	1.057	6.358	0.998	0.000	19.91	13	28	43	-
	200	0.9983	0.1585	0.8814	1.106	9.608	0.993	0.000	35.06	25	48	68	-
	300	0.9980	0.1611	0.9202	1.149	12.976	0.992	0.000	51.67	38	68	91	-

Notes: See notes to Table 1.

Table 40: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0017	0.0307	1.006	1.049	1.000	0.858	4.16	4	5	7	1.014
	200	1.0000	0.0009	0.0329	1.006	1.058	1.000	0.848	4.17	4	5	7	1.010
	300	1.0000	0.0006	0.0368	1.008	1.082	1.000	0.829	4.19	4	5	8	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0163	1.004	1.031	1.000	0.923	4.08	4	5	7	1.009
	200	1.0000	0.0004	0.0173	1.004	1.036	1.000	0.916	4.09	4	5	6	1.006
	300	0.9999	0.0004	0.0212	1.005	1.057	1.000	0.899	4.11	4	5	7	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0003	0.0050	1.001	1.012	1.000	0.975	4.02	4	4	6	1.003
	200	1.0000	0.0001	0.0037	1.001	1.011	1.000	0.982	4.02	4	4	6	1.002
	300	0.9994	0.0001	0.0073	1.002	1.026	0.998	0.963	4.03	4	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0286	1.005	1.042	1.000	0.868	4.15	4	5	7	1.004
	200	1.0000	0.0008	0.0314	1.006	1.045	1.000	0.854	4.16	4	5	7	1.002
	300	1.0000	0.0006	0.0352	1.007	1.073	1.000	0.836	4.18	4	5	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0149	1.003	1.024	1.000	0.929	4.08	4	5	7	1.002
	200	1.0000	0.0004	0.0165	1.003	1.029	1.000	0.920	4.08	4	5	6	1.002
	300	0.9999	0.0004	0.0204	1.005	1.052	1.000	0.903	4.10	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0002	0.0045	1.001	1.009	1.000	0.978	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0035	1.001	1.007	1.000	0.983	4.02	4	4	6	1.001
	300	0.9994	0.0001	0.0068	1.002	1.019	0.998	0.966	4.03	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.8324	0.0428	0.4218	1.031	0.758	0.435	0.078	7.44	3	16	42	-
	200	0.8328	0.0314	0.4933	1.036	0.793	0.427	0.059	9.48	3	23	54	-
	300	0.8269	0.0277	0.5537	1.042	0.841	0.424	0.043	11.50	3	29	59	-
Adaptive Lasso	100	0.5449	0.0086	0.1466	1.035	1.771	0.029	0.011	3.01	1	7	31	-
	200	0.5518	0.0083	0.2176	1.040	1.840	0.031	0.005	3.83	1	10	42	-
	300	0.5650	0.0088	0.2708	1.050	1.929	0.049	0.008	4.86	1	15	49	-
Sica	100	0.2505	0.0011	0.0351	1.062	3.392	0.000	0.000	1.11	1	2	14	-
	200	0.2501	0.0005	0.0314	1.061	3.456	0.000	0.000	1.09	1	2	8	-
	300	0.2500	0.0003	0.0281	1.061	3.516	0.000	0.000	1.08	1	1	10	-
Hard thresholding	100	0.2510	0.0007	0.0184	1.060	3.362	0.000	0.000	1.08	1	1	16	-
	200	0.2503	0.0002	0.0131	1.057	3.416	0.000	0.000	1.05	1	1	10	-
	300	0.2503	0.0002	0.0130	1.059	3.473	0.000	0.000	1.05	1	1	10	-
Boosting methods													
$v = 0.1$	100	0.8795	0.3446	0.9012	1.120	1.836	0.559	0.000	36.60	27	47	55	-
	200	0.8793	0.3142	0.9458	1.196	2.483	0.565	0.000	65.09	58	72	80	-
	300	0.8706	0.2457	0.9542	1.196	2.495	0.544	0.000	76.22	68	84	93	-
$v = 1$	100	0.4510	0.1762	0.8968	1.257	5.255	0.010	0.000	18.72	10	31	51	-
	200	0.4258	0.2092	0.9577	1.415	7.369	0.007	0.000	42.71	25	67.5	105	-
	300	0.4183	0.2288	0.9748	1.524	11.235	0.005	0.000	69.40	44	99	130	-

Notes: See notes to Table 1.

Table 41: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0216	1.001	1.038	1.000	0.897	4.11	4	5	7	1.011
	200	1.0000	0.0007	0.0247	1.002	1.049	1.000	0.886	4.13	4	5	7	1.007
	300	1.0000	0.0004	0.0247	1.002	1.049	1.000	0.882	4.13	4	5	7	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0119	1.001	1.024	1.000	0.944	4.06	4	5	7	1.006
	200	1.0000	0.0003	0.0134	1.001	1.029	1.000	0.936	4.07	4	5	6	1.004
	300	1.0000	0.0002	0.0133	1.001	1.029	1.000	0.934	4.07	4	5	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0024	1.000	1.008	1.000	0.989	4.01	4	4	6	1.002
	200	1.0000	0.0001	0.0027	1.000	1.007	1.000	0.987	4.01	4	4	5	1.001
	300	1.0000	0.0000	0.0020	1.000	1.005	1.000	0.991	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0198	1.001	1.029	1.000	0.906	4.10	4	5	7	1.002
	200	1.0000	0.0006	0.0234	1.002	1.038	1.000	0.891	4.12	4	5	7	1.000
	300	1.0000	0.0004	0.0236	1.002	1.043	1.000	0.887	4.12	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0109	1.001	1.017	1.000	0.948	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0126	1.001	1.022	1.000	0.939	4.06	4	5	6	1.000
	300	1.0000	0.0002	0.0126	1.001	1.025	1.000	0.938	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0020	1.000	1.003	1.000	0.991	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0026	1.000	1.006	1.000	0.987	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0018	1.000	1.004	1.000	0.992	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.9773	0.0396	0.3784	1.012	1.051	0.910	0.175	7.71	4	16	34	-
	200	0.9758	0.0259	0.4368	1.014	1.080	0.904	0.135	8.99	4	20	43	-
	300	0.9794	0.0198	0.4510	1.015	1.097	0.918	0.142	9.77	4	23	58	-
Adaptive Lasso	100	0.7684	0.0037	0.0538	1.016	2.840	0.262	0.190	3.43	2	5	25	-
	200	0.7784	0.0032	0.0902	1.016	2.774	0.292	0.165	3.74	2	7	29	-
	300	0.7903	0.0033	0.1114	1.018	2.884	0.325	0.168	4.15	2	8	52	-
Sica	100	0.2830	0.0030	0.0579	1.065	9.340	0.000	0.000	1.42	1	4	17	-
	200	0.2679	0.0006	0.0302	1.066	9.820	0.000	0.000	1.19	1	2	11	-
	300	0.2600	0.0003	0.0220	1.069	10.329	0.000	0.000	1.13	1	2	11	-
Hard thresholding	100	0.2798	0.0008	0.0162	1.065	9.457	0.003	0.001	1.20	1	3	10	-
	200	0.2675	0.0002	0.0114	1.066	9.869	0.000	0.000	1.12	1	2	7	-
	300	0.2629	0.0001	0.0098	1.066	10.263	0.000	0.000	1.10	1	1	8	-
Boosting methods													
$v = 0.1$	100	0.9844	0.3306	0.8871	1.037	1.913	0.938	0.000	35.68	27	44	57	-
	200	0.9868	0.3334	0.9425	1.072	2.999	0.948	0.000	69.30	57	79	89	-
	300	0.9873	0.2885	0.9557	1.089	3.435	0.949	0.000	89.33	81	97	105	-
$v = 1$	100	0.8434	0.1684	0.8172	1.099	6.443	0.446	0.000	19.54	12	29	44	-
	200	0.7794	0.1661	0.9089	1.172	9.963	0.292	0.000	35.67	24	50	76	-
	300	0.7429	0.1733	0.9436	1.246	13.531	0.228	0.000	54.28	38	74	110	-

Notes: See notes to Table 1.

Table 42: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0198	1.001	1.039	1.000	0.905	4.10	4	5	7	1.007
	200	1.0000	0.0005	0.0207	1.001	1.039	1.000	0.903	4.11	4	5	7	1.002
	300	1.0000	0.0003	0.0197	1.001	1.045	1.000	0.906	4.10	4	5	6	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0101	1.000	1.023	1.000	0.950	4.05	4	4.5	6	1.004
	200	1.0000	0.0003	0.0109	1.000	1.019	1.000	0.948	4.06	4	5	7	1.001
	300	1.0000	0.0002	0.0103	1.000	1.026	1.000	0.950	4.05	4	4.5	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0016	1.000	1.006	1.000	0.993	4.01	4	4	6	1.001
	200	1.0000	0.0001	0.0022	1.000	1.007	1.000	0.990	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0025	1.000	1.007	1.000	0.988	4.01	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0185	1.001	1.033	1.000	0.911	4.09	4	5	7	1.001
	200	1.0000	0.0005	0.0204	1.001	1.037	1.000	0.905	4.11	4	5	7	1.000
	300	1.0000	0.0003	0.0187	1.001	1.039	1.000	0.911	4.10	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0095	1.000	1.019	1.000	0.953	4.05	4	4	6	1.001
	200	1.0000	0.0003	0.0108	1.000	1.019	1.000	0.948	4.06	4	5	7	1.000
	300	1.0000	0.0002	0.0100	1.000	1.024	1.000	0.952	4.05	4	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0015	1.000	1.004	1.000	0.993	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0022	1.000	1.007	1.000	0.990	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0025	1.000	1.007	1.000	0.988	4.01	4	4	5	1.000
Penalised regression methods													
Lasso	100	0.9970	0.0414	0.3856	1.007	1.130	0.988	0.178	7.96	4	16	32	-
	200	0.9961	0.0247	0.4195	1.008	1.145	0.985	0.170	8.82	4	19.5	49	-
	300	0.9961	0.0184	0.4334	1.009	1.152	0.985	0.159	9.43	4	21.5	53	-
Adaptive Lasso	100	0.8801	0.0032	0.0387	1.011	3.260	0.561	0.458	3.83	3	5	26	-
	200	0.8821	0.0030	0.0609	1.011	3.176	0.568	0.426	4.11	3	6	35	-
	300	0.8824	0.0031	0.0769	1.012	3.166	0.572	0.417	4.46	3	9	33	-
Sica	100	0.3808	0.0070	0.1206	1.052	13.606	0.001	0.000	2.19	1	6	22	-
	200	0.3258	0.0015	0.0671	1.059	15.053	0.000	0.000	1.60	1	4	9	-
	300	0.3134	0.0007	0.0463	1.061	14.929	0.000	0.000	1.45	1	3	14	-
Hard thresholding	100	0.3910	0.0014	0.0235	1.055	14.864	0.070	0.032	1.69	1	5	12	-
	200	0.3574	0.0005	0.0192	1.057	15.210	0.023	0.010	1.53	1	4	12	-
	300	0.3463	0.0003	0.0188	1.060	14.843	0.017	0.012	1.47	1	4	8	-
Boosting methods													
$v = 0.1$	100	0.9981	0.3278	0.8850	1.021	1.986	0.993	0.000	35.47	27	44	55	-
	200	0.9984	0.3313	0.9414	1.043	3.025	0.994	0.000	68.93	57	79	91	-
	300	0.9976	0.2995	0.9568	1.055	3.470	0.991	0.000	92.65	84	101	109	-
$v = 1$	100	0.9663	0.1655	0.7928	1.058	6.553	0.866	0.000	19.75	13	28	43	-
	200	0.9444	0.1576	0.8868	1.105	9.795	0.782	0.000	34.67	24	47	63	-
	300	0.9214	0.1600	0.9255	1.148	12.664	0.695	0.000	51.03	37	68	100	-

Notes: See notes to Table 1.

Table 43: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9906	0.0015	0.0274	1.005	1.041	0.972	0.849	4.10	4	5	7	1.011
	200	0.9839	0.0008	0.0316	1.007	1.025	0.957	0.817	4.10	4	5	7	1.008
	300	0.9811	0.0006	0.0357	1.008	1.045	0.952	0.802	4.10	4	5	7	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9845	0.0007	0.0147	1.002	0.994	0.957	0.891	4.01	4	5	6	1.004
	200	0.9751	0.0005	0.0187	1.005	0.992	0.940	0.859	3.99	3	5	6	1.005
	300	0.9703	0.0003	0.0214	1.005	1.007	0.927	0.844	3.98	3	5	6	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9600	0.0002	0.0046	1.001	0.938	0.902	0.886	3.86	3	4	5	1.003
	200	0.9463	0.0001	0.0055	1.003	0.937	0.884	0.862	3.81	2	4	6	1.002
	300	0.9349	0.0001	0.0048	1.003	0.942	0.865	0.844	3.76	2	4	5	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9906	0.0014	0.0257	1.005	1.029	0.972	0.855	4.09	4	5	6	1.002
	200	0.9839	0.0008	0.0302	1.007	1.019	0.957	0.823	4.09	4	5	7	1.000
	300	0.9811	0.0006	0.0341	1.007	1.033	0.952	0.810	4.09	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9845	0.0007	0.0142	1.002	0.991	0.957	0.893	4.01	4	5	6	1.001
	200	0.9751	0.0004	0.0178	1.004	0.987	0.940	0.861	3.99	3	5	6	1.000
	300	0.9703	0.0003	0.0204	1.005	0.999	0.927	0.848	3.98	3	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9600	0.0002	0.0040	1.001	0.936	0.902	0.888	3.86	3	4	5	1.000
	200	0.9463	0.0001	0.0050	1.002	0.935	0.884	0.863	3.81	2	4	5	1.000
	300	0.9349	0.0001	0.0043	1.003	0.937	0.865	0.846	3.76	2	4	5	1.000
					Penalised regression methods								
Lasso	100	0.6659	0.0431	0.4632	1.022	0.530	0.138	0.023	6.80	2	16	43	-
	200	0.6394	0.0341	0.5645	1.029	0.552	0.103	0.011	9.24	2	23	64	-
	300	0.6468	0.0290	0.6210	1.033	0.594	0.129	0.009	11.18	2	29	59	-
Adaptive Lasso	100	0.4054	0.0124	0.2303	1.022	1.153	0.005	0.001	2.81	1	7	39	-
	200	0.4160	0.0121	0.3373	1.033	1.240	0.003	0.000	4.04	1	12	60	-
	300	0.4271	0.0116	0.3984	1.046	1.407	0.006	0.000	5.15	1	16	54	-
Sica	100	0.2500	0.0021	0.0739	1.026	1.751	0.000	0.000	1.20	1	2	12	-
	200	0.2500	0.0012	0.0790	1.028	1.698	0.000	0.000	1.23	1	3	11	-
	300	0.2500	0.0007	0.0764	1.028	1.756	0.000	0.000	1.21	1	2	8	-
Hard thresholding	100	0.2500	0.0017	0.0562	1.024	1.721	0.000	0.000	1.16	1	2	19	-
	200	0.2498	0.0008	0.0601	1.025	1.653	0.000	0.000	1.16	1	2	12	-
	300	0.2500	0.0006	0.0640	1.026	1.729	0.000	0.000	1.17	1	2	8	-
					Boosting methods								
$v = 0.1$	100	0.7506	0.3441	0.9147	1.116	1.708	0.263	0.000	36.04	26	47	57	-
	200	0.7346	0.3163	0.9546	1.191	2.276	0.230	0.000	64.93	57	72	79	-
	300	0.7321	0.2463	0.9613	1.193	2.349	0.237	0.000	75.83	69	83	92	-
$v = 1$	100	0.3505	0.1676	0.9143	1.216	3.841	0.001	0.000	17.50	10	28	55	-
	200	0.3618	0.2082	0.9636	1.372	5.498	0.003	0.000	42.25	25	66	104	-
	300	0.3731	0.2313	0.9778	1.479	8.363	0.004	0.000	69.95	45	101	136	-

Notes: See notes to Table 1.

Table 44: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0212	1.002	1.047	1.000	0.901	4.11	4	5	7	1.003
	200	1.0000	0.0007	0.0257	1.002	1.058	1.000	0.880	4.13	4	5	7	1.005
	300	1.0000	0.0004	0.0221	1.002	1.060	1.000	0.895	4.11	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0104	1.001	1.027	1.000	0.952	4.05	4	4	6	1.002
	200	1.0000	0.0003	0.0130	1.001	1.032	1.000	0.938	4.07	4	5	7	1.001
	300	1.0000	0.0002	0.0114	1.001	1.030	1.000	0.944	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0029	1.000	1.009	1.000	0.986	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0024	1.000	1.005	1.000	0.988	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0019	1.000	1.006	1.000	0.991	4.01	4	4	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0207	1.001	1.045	1.000	0.904	4.11	4	5	7	1.000
	200	1.0000	0.0007	0.0249	1.002	1.054	1.000	0.884	4.13	4	5	7	1.000
	300	1.0000	0.0004	0.0218	1.002	1.059	1.000	0.896	4.11	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0101	1.001	1.026	1.000	0.953	4.05	4	4	6	1.000
	200	1.0000	0.0003	0.0128	1.001	1.028	1.000	0.939	4.07	4	5	7	1.000
	300	1.0000	0.0002	0.0112	1.001	1.029	1.000	0.945	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0027	1.000	1.008	1.000	0.987	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0024	1.000	1.005	1.000	0.988	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0019	1.000	1.006	1.000	0.991	4.01	4	4	6	1.000
Penalised regression methods													
Lasso	100	0.8811	0.0393	0.3930	1.011	0.843	0.562	0.096	7.30	3	15	33	-
	200	0.8739	0.0240	0.4335	1.013	0.859	0.547	0.077	8.21	3	19	52	-
	300	0.8771	0.0193	0.4635	1.014	0.882	0.554	0.089	9.24	3	22	53	-
Adaptive Lasso	100	0.5979	0.0061	0.1083	1.012	2.076	0.048	0.020	2.98	1	6	23	-
	200	0.6048	0.0048	0.1444	1.013	2.124	0.064	0.024	3.37	1	8	33	-
	300	0.6123	0.0049	0.1817	1.015	2.200	0.061	0.017	3.90	1	10	45	-
Sica	100	0.2510	0.0007	0.0214	1.028	4.533	0.000	0.000	1.07	1	1	9	-
	200	0.2498	0.0001	0.0101	1.026	4.484	0.000	0.000	1.03	1	1	8	-
	300	0.2499	0.0001	0.0084	1.027	4.657	0.000	0.000	1.02	1	1	8	-
Hard thresholding	100	0.2506	0.0002	0.0051	1.027	4.513	0.000	0.000	1.02	1	1	8	-
	200	0.2503	0.0001	0.0089	1.026	4.480	0.000	0.000	1.03	1	1	8	-
	300	0.2501	0.0000	0.0039	1.027	4.642	0.000	0.000	1.01	1	1	5	-
Boosting methods													
$v = 0.1$	100	0.9144	0.3310	0.8943	1.036	1.785	0.672	0.000	35.43	26	45	55	-
	200	0.9128	0.3334	0.9466	1.073	2.852	0.673	0.000	68.99	57	79	88	-
	300	0.9166	0.2902	0.9590	1.089	3.348	0.687	0.000	89.58	82	98	104	-
$v = 1$	100	0.5784	0.1602	0.8631	1.090	5.665	0.050	0.000	17.69	10	27	38	-
	200	0.5086	0.1597	0.9370	1.161	8.436	0.018	0.000	33.33	22	47	67	-
	300	0.4851	0.1681	0.9615	1.230	11.319	0.012	0.000	51.69	37	72	112	-

Notes: See notes to Table 1.

Table 45: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0196	1.001	1.051	1.000	0.909	4.10	4	5	6	1.005
	200	1.0000	0.0006	0.0217	1.001	1.053	1.000	0.899	4.11	4	5	6	1.002
	300	1.0000	0.0004	0.0211	1.001	1.060	1.000	0.900	4.11	4	5	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0105	1.001	1.029	1.000	0.949	4.05	4	5	6	1.001
	200	1.0000	0.0003	0.0123	1.001	1.032	1.000	0.942	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0114	1.001	1.038	1.000	0.945	4.06	4	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0020	1.000	1.006	1.000	0.991	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0033	1.000	1.012	1.000	0.984	4.02	4	4	5	1.000
	300	1.0000	0.0000	0.0027	1.000	1.011	1.000	0.987	4.01	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0187	1.001	1.045	1.000	0.913	4.10	4	5	6	1.000
	200	1.0000	0.0006	0.0214	1.001	1.051	1.000	0.901	4.11	4	5	6	1.000
	300	1.0000	0.0004	0.0206	1.001	1.056	1.000	0.902	4.11	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0103	1.001	1.027	1.000	0.950	4.05	4	4.5	6	1.000
	200	1.0000	0.0003	0.0121	1.001	1.031	1.000	0.943	4.06	4	5	6	1.000
	300	1.0000	0.0002	0.0111	1.001	1.036	1.000	0.947	4.06	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0020	1.000	1.006	1.000	0.991	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0033	1.000	1.012	1.000	0.984	4.02	4	4	5	1.000
	300	1.0000	0.0000	0.0027	1.000	1.011	1.000	0.987	4.01	4	4	5	1.000
					Penalised regression methods								
Lasso	100	0.9533	0.0393	0.3847	1.007	0.977	0.818	0.144	7.58	4	15	39	-
	200	0.9500	0.0250	0.4299	1.008	0.997	0.804	0.126	8.69	4	20	42	-
	300	0.9463	0.0180	0.4407	1.009	0.998	0.791	0.120	9.10	4	21	48	-
Adaptive Lasso	100	0.7055	0.0042	0.0709	1.008	2.515	0.150	0.099	3.22	2	6	22	-
	200	0.7104	0.0036	0.1038	1.009	2.524	0.169	0.081	3.55	2	7	36	-
	300	0.7174	0.0036	0.1267	1.010	2.596	0.180	0.078	3.93	2	8.5	35	-
Sica	100	0.2600	0.0016	0.0379	1.029	7.238	0.000	0.000	1.19	1	2	19	-
	200	0.2524	0.0003	0.0123	1.029	7.281	0.000	0.000	1.06	1	1	11	-
	300	0.2505	0.0001	0.0059	1.028	7.279	0.000	0.000	1.02	1	1	5	-
Hard thresholding	100	0.2594	0.0006	0.0114	1.029	7.228	0.000	0.000	1.09	1	1	12	-
	200	0.2536	0.0001	0.0055	1.029	7.258	0.000	0.000	1.03	1	1	8	-
	300	0.2529	0.0001	0.0050	1.028	7.248	0.000	0.000	1.03	1	1	9	-
					Boosting methods								
$v = 0.1$	100	0.9695	0.3295	0.8884	1.020	1.862	0.881	0.000	35.51	27	45	54	-
	200	0.9673	0.3313	0.9432	1.044	2.856	0.871	0.000	68.80	56	80	89	-
	300	0.9623	0.3008	0.9584	1.056	3.386	0.851	0.000	92.90	84	102	111	-
$v = 1$	100	0.7821	0.1622	0.8241	1.056	5.966	0.292	0.000	18.70	12	27	40	-
	200	0.7148	0.1559	0.9116	1.103	8.948	0.167	0.000	33.41	23	46	61	-
	300	0.6675	0.1571	0.9444	1.147	11.800	0.114	0.000	49.17	36	66	91	-

Notes: See notes to Table 1.

3.2 Findings for designs with non-zero correlations between signal and pseudo-signal variables

Table 46: MC findings for DGPII(a)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0223	0.3460	1.016	2.042	1.000	0.000	0.991	0.859	6.14	6	7	9	1.020
	200	1.0000	0.0110	0.3465	1.016	1.968	1.000	0.000	0.990	0.853	6.15	6	7	9	1.012
	300	1.0000	0.0072	0.3454	1.015	2.012	1.000	0.000	0.980	0.838	6.14	6	7	9	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0216	0.3393	1.014	2.004	1.000	0.000	0.986	0.907	6.07	6	7	8	1.015
	200	1.0000	0.0106	0.3395	1.014	1.928	1.000	0.000	0.983	0.898	6.07	6	7	8	1.007
	300	0.9999	0.0069	0.3373	1.013	1.963	1.000	0.000	0.970	0.892	6.05	6	7	8	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0207	0.3303	1.011	1.868	1.000	0.000	0.965	0.949	5.98	6	6	8	1.003
	200	1.0000	0.0101	0.3293	1.011	1.846	1.000	0.001	0.956	0.935	5.98	6	6	7	1.001
	300	0.9998	0.0066	0.3252	1.011	1.904	0.999	0.003	0.929	0.913	5.94	5	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0221	0.3444	1.014	1.936	1.000	0.000	0.991	0.874	6.12	6	7	9	1.003
	200	1.0000	0.0109	0.3453	1.014	1.926	1.000	0.000	0.990	0.864	6.13	6	7	9	1.000
	300	1.0000	0.0072	0.3446	1.014	1.990	1.000	0.000	0.980	0.845	6.13	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3381	1.013	1.902	1.000	0.000	0.986	0.920	6.06	6	7	8	1.002
	200	1.0000	0.0105	0.3389	1.013	1.894	1.000	0.000	0.983	0.905	6.07	6	7	8	1.000
	300	0.9999	0.0069	0.3369	1.013	1.954	1.000	0.000	0.970	0.895	6.05	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0206	0.3301	1.011	1.862	1.000	0.000	0.965	0.951	5.98	6	6	8	1.001
	200	1.0000	0.0101	0.3292	1.011	1.844	1.000	0.001	0.956	0.935	5.98	6	6	7	1.000
	300	0.9998	0.0066	0.3251	1.011	1.900	0.999	0.003	0.929	0.914	5.94	5	6	7	1.000
Penalised regression methods															
Lasso	100	0.9950	0.0600	0.5024	1.045	1.936	0.980	0.058	0.059	0.004	9.74	4	19	34	-
	200	0.9956	0.0425	0.5717	1.055	2.106	0.983	0.049	0.053	0.002	12.31	4	26	79	-
	300	0.9959	0.0357	0.6203	1.060	2.219	0.984	0.041	0.055	0.003	14.54	5	32	71	-
Adaptive Lasso	100	0.9253	0.0067	0.0995	1.051	3.212	0.719	0.482	0.001	0.001	4.34	3	7	20	-
	200	0.9269	0.0075	0.1643	1.056	3.448	0.728	0.389	0.002	0.000	5.18	3	10	52	-
	300	0.9338	0.0080	0.2127	1.063	3.652	0.755	0.344	0.002	0.000	6.11	3	15	56	-
Sica	100	0.6026	0.0064	0.1261	1.151	8.679	0.063	0.020	0.000	0.000	3.03	1	6	22	-
	200	0.5539	0.0028	0.1191	1.172	9.556	0.026	0.011	0.000	0.000	2.76	1	6	18	-
	300	0.5256	0.0017	0.1105	1.190	10.258	0.017	0.005	0.000	0.000	2.61	1	5	13	-
Hard thresholding	100	0.6236	0.0024	0.0489	1.142	8.963	0.177	0.127	0.000	0.000	2.73	1	5	12	-
	200	0.5953	0.0013	0.0554	1.157	9.416	0.131	0.091	0.000	0.000	2.65	1	5	14	-
	300	0.5661	0.0010	0.0586	1.171	9.939	0.094	0.056	0.000	0.000	2.55	1	5	14	-
Boosting methods															
$v = 0.1$	100	0.9968	0.3469	0.8901	1.128	4.296	0.987	0.000	0.152	0.000	37.29	28	48	56	-
	200	0.9980	0.3116	0.9384	1.201	5.809	0.992	0.000	0.143	0.000	65.07	58	72	77	-
	300	0.9973	0.2428	0.9472	1.205	5.899	0.989	0.000	0.116	0.000	75.87	69	84	90	-
$v = 1$	100	0.9058	0.1791	0.8120	1.271	11.209	0.654	0.000	0.027	0.000	20.82	13	31	53	-
	200	0.8573	0.2096	0.9171	1.872	>100	0.494	0.000	0.024	0.000	44.51	27	69	113	-
	300	0.8076	0.2286	0.9521	1.655	75.579	0.364	0.000	0.027	0.000	70.89	46	100	129	-

Notes: There are $k = 4$ signal variables ($i = 1, 2, 3, 4$) and $k^* = 2$ pseudo-signal variables ($i = 5, 6$). See notes to Table 1 for a brief summary of the reported statistics. See Section 5 of CKP for a detailed summary of the reported statistics, a description of the design and a description of implementation of individual methods.

Table 47: MC findings for DGPII(a)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0220	0.3438	1.004	1.954	1.000	0.000	1.000	0.898	6.11	6	7	8	1.007
	200	1.0000	0.0107	0.3429	1.004	1.932	1.000	0.000	1.000	0.907	6.10	6	7	9	1.007
	300	1.0000	0.0072	0.3449	1.005	1.988	1.000	0.000	1.000	0.887	6.12	6	7	8	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3382	1.004	1.915	1.000	0.000	1.000	0.951	6.05	6	6	8	1.003
	200	1.0000	0.0105	0.3380	1.004	1.895	1.000	0.000	1.000	0.953	6.05	6	6	9	1.004
	300	1.0000	0.0070	0.3395	1.004	1.942	1.000	0.000	1.000	0.939	6.07	6	7	8	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0209	0.3344	1.003	1.884	1.000	0.000	1.000	0.989	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3342	1.003	1.864	1.000	0.000	1.000	0.991	6.01	6	6	7	1.001
	300	1.0000	0.0068	0.3347	1.004	1.900	1.000	0.000	1.000	0.986	6.01	6	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3432	1.004	1.932	1.000	0.000	1.000	0.904	6.11	6	7	8	1.000
	200	1.0000	0.0107	0.3423	1.004	1.915	1.000	0.000	1.000	0.913	6.10	6	7	9	1.001
	300	1.0000	0.0072	0.3443	1.005	1.968	1.000	0.000	1.000	0.893	6.12	6	7	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3380	1.004	1.901	1.000	0.000	1.000	0.954	6.05	6	6	8	1.000
	200	1.0000	0.0104	0.3377	1.004	1.884	1.000	0.000	1.000	0.956	6.05	6	6	9	1.001
	300	1.0000	0.0070	0.3390	1.004	1.926	1.000	0.000	1.000	0.943	6.06	6	7	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3344	1.003	1.884	1.000	0.000	1.000	0.989	6.01	6	6	7	1.000
	200	1.0000	0.0102	0.3341	1.003	1.859	1.000	0.000	1.000	0.992	6.01	6	6	7	1.000
	300	1.0000	0.0068	0.3346	1.004	1.895	1.000	0.000	1.000	0.987	6.01	6	6	7	1.000
Penalised regression methods															
Lasso	100	0.9999	0.0572	0.4907	1.014	1.974	1.000	0.065	0.056	0.003	9.49	4	19	35	-
	200	1.0000	0.0359	0.5329	1.017	2.023	1.000	0.056	0.054	0.004	11.05	4	23	49	-
	300	1.0000	0.0261	0.5523	1.019	2.056	1.000	0.048	0.054	0.004	11.72	5	25	50	-
Adaptive Lasso	100	0.9991	0.0023	0.0293	1.008	2.301	0.997	0.892	0.001	0.000	4.21	4	5	27	-
	200	0.9995	0.0033	0.0592	1.010	2.399	0.998	0.830	0.003	0.000	4.64	4	6	34	-
	300	0.9991	0.0035	0.0769	1.012	2.815	0.997	0.807	0.002	0.001	5.04	4	13	41	-
Sica	100	0.9561	0.0046	0.0787	1.015	5.916	0.832	0.616	0.000	0.000	4.26	3	6	15	-
	200	0.9451	0.0017	0.0623	1.018	6.212	0.786	0.613	0.000	0.000	4.11	3	5	11	-
	300	0.9309	0.0010	0.0572	1.022	6.874	0.735	0.585	0.000	0.000	4.02	3	5	10	-
Hard thresholding	100	0.9680	0.0009	0.0155	1.011	5.661	0.898	0.852	0.000	0.000	3.96	3	4	11	-
	200	0.9658	0.0004	0.0139	1.011	5.888	0.891	0.852	0.000	0.000	3.94	3	4	9	-
	300	0.9661	0.0002	0.0131	1.011	5.563	0.889	0.853	0.000	0.000	3.93	3	4	8	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3342	0.8867	1.038	4.025	1.000	0.000	0.154	0.000	36.08	28	45	55	-
	200	1.0000	0.3338	0.9419	1.074	6.617	1.000	0.000	0.157	0.000	69.43	58	79	88	-
	300	1.0000	0.2854	0.9547	1.089	7.436	1.000	0.000	0.160	0.000	88.47	81	97	105	-
$v = 1$	100	0.9978	0.1536	0.7743	1.084	10.025	0.991	0.000	0.054	0.000	18.73	12	26.5	39	-
	200	0.9979	0.1569	0.8802	1.154	16.015	0.992	0.000	0.047	0.000	34.74	24	48	64	-
	300	0.9976	0.1658	0.9220	1.220	21.924	0.991	0.000	0.051	0.000	53.07	38	72	109	-

Notes: See notes to Table 46.

Table 48: MC findings for DGPII(a)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0219	0.3431	1.002	1.888	1.000	0.000	1.000	0.904	6.11	6	7	9	1.009
	200	1.0000	0.0107	0.3428	1.003	1.890	1.000	0.000	1.000	0.908	6.10	6	7	9	1.007
	300	1.0000	0.0071	0.3436	1.002	1.926	1.000	0.000	1.000	0.903	6.11	6	7	10	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3382	1.002	1.861	1.000	0.000	1.000	0.951	6.05	6	6	8	1.005
	200	1.0000	0.0105	0.3387	1.002	1.858	1.000	0.000	1.000	0.947	6.06	6	7	8	1.003
	300	1.0000	0.0069	0.3383	1.002	1.874	1.000	0.000	1.000	0.951	6.05	6	6	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0209	0.3343	1.002	1.826	1.000	0.000	1.000	0.990	6.01	6	6	7	1.001
	200	1.0000	0.0103	0.3345	1.002	1.828	1.000	0.000	1.000	0.988	6.01	6	6	8	1.000
	300	1.0000	0.0068	0.3344	1.002	1.838	1.000	0.000	1.000	0.989	6.01	6	6	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3425	1.002	1.869	1.000	0.000	1.000	0.911	6.10	6	7	9	1.001
	200	1.0000	0.0107	0.3421	1.002	1.873	1.000	0.000	1.000	0.914	6.09	6	7	9	1.000
	300	1.0000	0.0071	0.3429	1.002	1.904	1.000	0.000	1.000	0.909	6.10	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3378	1.002	1.846	1.000	0.000	1.000	0.955	6.05	6	6	8	1.001
	200	1.0000	0.0105	0.3384	1.002	1.851	1.000	0.000	1.000	0.950	6.05	6	7	8	1.000
	300	1.0000	0.0069	0.3381	1.002	1.865	1.000	0.000	1.000	0.953	6.05	6	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3342	1.002	1.823	1.000	0.000	1.000	0.991	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3345	1.002	1.828	1.000	0.000	1.000	0.988	6.01	6	6	8	1.000
	300	1.0000	0.0068	0.3344	1.002	1.835	1.000	0.000	1.000	0.990	6.01	6	6	8	1.000
Penalised regression methods															
Lasso	100	1.0000	0.0544	0.4695	1.009	1.898	1.000	0.082	0.058	0.007	9.22	4	17	33	-
	200	1.0000	0.0354	0.5245	1.011	1.977	1.000	0.062	0.052	0.004	10.94	4	22	57	-
	300	1.0000	0.0265	0.5418	1.012	2.041	1.000	0.057	0.047	0.002	11.83	4	27	76	-
Adaptive Lasso	100	1.0000	0.0023	0.0215	1.004	1.816	1.000	0.945	0.001	0.000	4.22	4	5	28	-
	200	1.0000	0.0036	0.0526	1.005	2.176	1.000	0.900	0.002	0.000	4.71	4	11	35	-
	300	1.0000	0.0045	0.0832	1.007	2.516	1.000	0.860	0.004	0.000	5.34	4	16	47	-
Sica	100	0.9923	0.0022	0.0393	1.003	4.211	0.969	0.836	0.000	0.000	4.18	4	5	11	-
	200	0.9891	0.0008	0.0311	1.003	4.767	0.957	0.862	0.000	0.000	4.12	4	5	9	-
	300	0.9863	0.0005	0.0269	1.004	5.050	0.945	0.871	0.000	0.000	4.08	4	5	8	-
Hard thresholding	100	0.9973	0.0006	0.0093	1.001	2.422	0.990	0.954	0.000	0.000	4.04	4	4	10	-
	200	0.9971	0.0002	0.0061	1.001	2.802	0.990	0.967	0.000	0.000	4.02	4	4	8	-
	300	0.9961	0.0001	0.0059	1.001	2.930	0.986	0.966	0.000	0.000	4.02	4	4	11	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3316	0.8858	1.021	3.909	1.000	0.000	0.152	0.000	35.84	27	45	56	-
	200	1.0000	0.3319	0.9415	1.044	6.350	1.000	0.000	0.156	0.000	69.04	57	79	89	-
	300	1.0000	0.2955	0.9561	1.052	7.304	1.000	0.000	0.134	0.000	91.46	83	100	110	-
$v = 1$	100	1.0000	0.1518	0.7708	1.049	9.796	1.000	0.000	0.055	0.000	18.58	12	27	40	-
	200	1.0000	0.1505	0.8758	1.093	15.735	1.000	0.000	0.053	0.000	33.50	24	45	69	-
	300	0.9996	0.1537	0.9167	1.134	21.065	0.999	0.000	0.049	0.000	49.49	36	64	90	-

Notes: See notes to Table 46.

Table 49: MC findings for DGPII(a)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9978	0.0212	0.3320	1.015	1.953	0.991	0.004	0.879	0.758	6.02	5	7	9	1.016
	200	0.9978	0.0101	0.3254	1.016	2.093	0.991	0.011	0.833	0.708	5.98	5	7	9	1.015
	300	0.9973	0.0066	0.3199	1.015	1.967	0.990	0.020	0.805	0.689	5.94	5	7	9	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9963	0.0200	0.3202	1.013	1.884	0.985	0.007	0.844	0.777	5.91	5	7	9	1.010
	200	0.9959	0.0094	0.3096	1.013	1.930	0.984	0.015	0.784	0.723	5.83	5	7	8	1.008
	300	0.9951	0.0061	0.3042	1.013	1.889	0.982	0.029	0.752	0.687	5.80	5	7	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9924	0.0177	0.2914	1.010	1.783	0.972	0.030	0.719	0.706	5.67	4	6	7	1.003
	200	0.9890	0.0083	0.2798	1.010	1.785	0.963	0.043	0.651	0.638	5.58	4	6	7	1.001
	300	0.9860	0.0053	0.2729	1.010	1.768	0.950	0.056	0.616	0.599	5.52	4	6	7	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9978	0.0210	0.3306	1.014	1.912	0.991	0.005	0.879	0.767	6.01	5	7	9	1.002
	200	0.9978	0.0101	0.3239	1.015	1.981	0.991	0.011	0.833	0.717	5.96	5	7	9	1.000
	300	0.9973	0.0065	0.3190	1.015	1.939	0.990	0.020	0.805	0.694	5.93	5	7	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9963	0.0199	0.3193	1.012	1.860	0.985	0.008	0.844	0.783	5.90	5	7	9	1.001
	200	0.9959	0.0094	0.3089	1.012	1.910	0.984	0.015	0.784	0.728	5.82	5	7	8	1.001
	300	0.9951	0.0061	0.3035	1.012	1.868	0.982	0.029	0.752	0.692	5.79	5	7	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9924	0.0177	0.2911	1.009	1.777	0.972	0.030	0.719	0.708	5.67	4	6	7	1.001
	200	0.9890	0.0083	0.2797	1.010	1.783	0.963	0.043	0.651	0.639	5.58	4	6	7	1.000
	300	0.9860	0.0053	0.2727	1.010	1.764	0.950	0.056	0.616	0.601	5.52	4	6	7	1.000
Penalised regression methods															
Lasso	100	0.9394	0.0566	0.4914	1.043	1.646	0.768	0.059	0.036	0.005	9.19	4	18	47	-
	200	0.9365	0.0412	0.5680	1.053	1.859	0.762	0.039	0.034	0.002	11.82	4	27	53	-
	300	0.9350	0.0338	0.6114	1.059	1.963	0.759	0.032	0.032	0.001	13.75	4	33	59	-
Adaptive Lasso	100	0.7364	0.0107	0.1659	1.054	2.768	0.244	0.112	0.001	0.000	3.97	2	8	27	-
	200	0.7454	0.0105	0.2414	1.063	3.166	0.273	0.091	0.001	0.000	5.04	2	12	44	-
	300	0.7538	0.0101	0.2953	1.070	3.474	0.288	0.074	0.001	0.000	5.99	2	15	47	-
Sica	100	0.3964	0.0056	0.1371	1.123	5.976	0.001	0.000	0.000	0.000	2.12	1	5	17	-
	200	0.3549	0.0021	0.1110	1.135	6.479	0.000	0.000	0.000	0.000	1.82	1	4	16	-
	300	0.3373	0.0013	0.1107	1.141	7.007	0.000	0.000	0.000	0.000	1.75	1	4	11	-
Hard thresholding	100	0.3723	0.0026	0.0705	1.121	6.030	0.003	0.001	0.000	0.000	1.74	1	4	12	-
	200	0.3383	0.0014	0.0752	1.136	6.555	0.001	0.001	0.000	0.000	1.63	1	4	17	-
	300	0.3220	0.0009	0.0730	1.141	7.038	0.001	0.000	0.000	0.000	1.55	1	4	13	-
Boosting methods															
$v = 0.1$	100	0.9628	0.3450	0.8929	1.128	3.991	0.854	0.000	0.112	0.000	36.97	27	47	56	-
	200	0.9626	0.3137	0.9408	1.199	5.654	0.856	0.000	0.119	0.000	65.33	58	72	78	-
	300	0.9589	0.2444	0.9495	1.204	5.827	0.842	0.000	0.097	0.000	76.18	69	84	91	-
$v = 1$	100	0.7164	0.1759	0.8445	1.260	9.447	0.188	0.000	0.008	0.000	19.75	12	31	51	-
	200	0.6708	0.2089	0.9341	1.431	15.098	0.127	0.000	0.006	0.000	43.62	26	69	99	-
	300	0.6396	0.2290	0.9619	1.587	87.557	0.100	0.000	0.006	0.000	70.34	46	100	125	-

Notes: See notes to Table 46.

Table 50: MC findings for DGPII(a)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3445	1.005	2.007	1.000	0.000	1.000	0.889	6.12	6	7	9	1.007
	200	1.0000	0.0108	0.3445	1.005	1.994	1.000	0.000	1.000	0.888	6.12	6	7	9	1.006
	300	1.0000	0.0072	0.3452	1.005	1.950	1.000	0.000	1.000	0.887	6.13	6	7	9	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3390	1.005	1.955	1.000	0.000	1.000	0.942	6.06	6	7	8	1.004
	200	1.0000	0.0105	0.3395	1.004	1.949	1.000	0.000	1.000	0.938	6.07	6	7	9	1.004
	300	1.0000	0.0070	0.3400	1.004	1.898	1.000	0.000	1.000	0.934	6.07	6	7	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3348	1.004	1.915	1.000	0.000	1.000	0.985	6.02	6	6	7	1.002
	200	1.0000	0.0103	0.3343	1.003	1.886	1.000	0.000	1.000	0.990	6.01	6	6	7	1.001
	300	1.0000	0.0068	0.3350	1.003	1.824	1.000	0.000	1.000	0.983	6.02	6	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3440	1.005	1.987	1.000	0.000	1.000	0.894	6.11	6	7	9	1.001
	200	1.0000	0.0108	0.3440	1.004	1.973	1.000	0.000	1.000	0.893	6.11	6	7	9	1.000
	300	1.0000	0.0072	0.3448	1.005	1.935	1.000	0.000	1.000	0.891	6.12	6	7	9	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3387	1.005	1.944	1.000	0.000	1.000	0.945	6.06	6	7	8	1.001
	200	1.0000	0.0105	0.3392	1.004	1.934	1.000	0.000	1.000	0.941	6.06	6	7	9	1.000
	300	1.0000	0.0070	0.3397	1.004	1.888	1.000	0.000	1.000	0.937	6.07	6	7	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3346	1.004	1.908	1.000	0.000	1.000	0.987	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3343	1.003	1.882	1.000	0.000	1.000	0.990	6.01	6	6	7	1.000
	300	1.0000	0.0068	0.3350	1.003	1.821	1.000	0.000	1.000	0.983	6.02	6	6	7	1.000
Penalised regression methods															
Lasso	100	0.9993	0.0592	0.5004	1.014	1.918	0.997	0.066	0.067	0.004	9.68	4	18	34	-
	200	0.9985	0.0353	0.5352	1.017	1.955	0.994	0.055	0.046	0.002	10.92	4	22	47	-
	300	0.9990	0.0281	0.5666	1.019	1.968	0.996	0.050	0.053	0.006	12.33	4.5	27	58	-
Adaptive Lasso	100	0.9703	0.0051	0.0768	1.013	2.966	0.883	0.664	0.002	0.002	4.37	3	6	24	-
	200	0.9729	0.0039	0.1020	1.014	2.960	0.894	0.610	0.003	0.000	4.65	3	8	41	-
	300	0.9729	0.0042	0.1360	1.016	3.115	0.893	0.552	0.002	0.000	5.14	3	9	42	-
Sica	100	0.7498	0.0079	0.1336	1.040	7.651	0.245	0.083	0.000	0.000	3.75	2	7	17	-
	200	0.6848	0.0025	0.0979	1.049	8.809	0.127	0.048	0.000	0.000	3.23	2	6	16	-
	300	0.6490	0.0014	0.0876	1.055	9.104	0.068	0.034	0.000	0.000	3.01	2	5	14	-
Hard thresholding	100	0.7713	0.0021	0.0412	1.035	7.983	0.401	0.323	0.000	0.000	3.29	2	5	10	-
	200	0.7383	0.0008	0.0344	1.041	8.626	0.344	0.284	0.000	0.000	3.11	2	5	11	-
	300	0.7201	0.0005	0.0320	1.044	8.540	0.295	0.247	0.000	0.000	3.03	1	5	12	-
Boosting methods															
$v = 0.1$	100	0.9996	0.3347	0.8868	1.037	4.056	0.999	0.000	0.153	0.000	36.13	28	45	57	-
	200	0.9993	0.3320	0.9415	1.074	6.566	0.997	0.000	0.141	0.000	69.07	57	79	87	-
	300	0.9991	0.2865	0.9549	1.090	7.250	0.997	0.000	0.141	0.000	88.81	81	97	106	-
$v = 1$	100	0.9700	0.1522	0.7779	1.082	10.002	0.881	0.000	0.034	0.000	18.49	12	26	39	-
	200	0.9646	0.1555	0.8827	1.155	16.050	0.863	0.000	0.029	0.000	34.33	24	47	66	-
	300	0.9569	0.1658	0.9251	1.223	21.317	0.830	0.000	0.025	0.000	52.91	38	71	104	-

Notes: See notes to Table 46.

Table 51: MC findings for DGPII(a)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0218	0.3423	1.003	1.959	1.000	0.000	1.000	0.911	6.10	6	7	9	1.009
	200	1.0000	0.0108	0.3439	1.003	2.013	1.000	0.000	1.000	0.896	6.11	6	7	8	1.007
	300	1.0000	0.0072	0.3446	1.003	2.006	1.000	0.000	1.000	0.894	6.12	6	7	9	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0213	0.3375	1.002	1.905	1.000	0.000	1.000	0.958	6.04	6	6	8	1.006
	200	1.0000	0.0105	0.3382	1.003	1.950	1.000	0.000	1.000	0.951	6.05	6	6	8	1.005
	300	1.0000	0.0070	0.3393	1.003	1.941	1.000	0.000	1.000	0.942	6.06	6	7	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0209	0.3341	1.002	1.863	1.000	0.000	1.000	0.992	6.01	6	6	7	1.001
	200	1.0000	0.0103	0.3347	1.002	1.902	1.000	0.000	1.000	0.987	6.01	6	6	8	1.001
	300	1.0000	0.0068	0.3346	1.003	1.887	1.000	0.000	1.000	0.987	6.01	6	6	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0218	0.3416	1.002	1.931	1.000	0.000	1.000	0.918	6.09	6	7	9	1.001
	200	1.0000	0.0107	0.3432	1.003	1.996	1.000	0.000	1.000	0.903	6.11	6	7	8	1.001
	300	1.0000	0.0072	0.3441	1.003	1.991	1.000	0.000	1.000	0.899	6.12	6	7	9	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0212	0.3370	1.002	1.887	1.000	0.000	1.000	0.963	6.04	6	6	8	1.000
	200	1.0000	0.0104	0.3378	1.003	1.939	1.000	0.000	1.000	0.956	6.05	6	6	8	1.000
	300	1.0000	0.0070	0.3391	1.003	1.934	1.000	0.000	1.000	0.944	6.06	6	7	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3341	1.002	1.861	1.000	0.000	1.000	0.992	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3346	1.002	1.901	1.000	0.000	1.000	0.987	6.01	6	6	8	1.000
	300	1.0000	0.0068	0.3346	1.003	1.885	1.000	0.000	1.000	0.988	6.01	6	6	8	1.000
Penalised regression methods															
Lasso	100	1.0000	0.0567	0.4886	1.008	1.853	1.000	0.068	0.059	0.005	9.45	4	18	31	-
	200	1.0000	0.0348	0.5293	1.011	1.945	1.000	0.047	0.061	0.005	10.82	5	22	44	-
	300	1.0000	0.0268	0.5524	1.012	1.999	1.000	0.053	0.041	0.003	11.93	4	26	67	-
Adaptive Lasso	100	0.9958	0.0030	0.0418	1.006	2.448	0.983	0.835	0.001	0.000	4.27	4	5	24	-
	200	0.9966	0.0030	0.0678	1.007	2.638	0.987	0.776	0.003	0.001	4.57	4	6	33	-
	300	0.9981	0.0033	0.0917	1.007	2.803	0.993	0.725	0.002	0.000	4.95	4	7	39	-
Sica	100	0.9058	0.0063	0.1059	1.014	6.428	0.646	0.406	0.000	0.000	4.23	3	6	16	-
	200	0.8714	0.0024	0.0858	1.019	7.231	0.540	0.357	0.000	0.000	3.96	3	6	12	-
	300	0.8504	0.0014	0.0783	1.022	7.939	0.480	0.314	0.000	0.000	3.81	2	6	12	-
Hard thresholding	100	0.9274	0.0012	0.0221	1.010	6.290	0.773	0.710	0.000	0.000	3.82	2	5	8	-
	200	0.9130	0.0006	0.0236	1.012	6.626	0.732	0.683	0.000	0.000	3.77	2	5	8	-
	300	0.9134	0.0003	0.0192	1.012	6.746	0.733	0.685	0.000	0.000	3.75	2	4	9	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3301	0.8856	1.022	3.903	1.000	0.000	0.149	0.000	35.69	28	44	53	-
	200	1.0000	0.3323	0.9415	1.044	6.298	1.000	0.000	0.164	0.000	69.14	57	80	89	-
	300	1.0000	0.2974	0.9564	1.056	7.547	1.000	0.000	0.138	0.000	92.02	84	100	107	-
$v = 1$	100	0.9949	0.1467	0.7679	1.050	9.693	0.980	0.000	0.050	0.000	18.07	12	25	36	-
	200	0.9914	0.1481	0.8753	1.093	15.449	0.966	0.000	0.045	0.000	32.98	24	44	57	-
	300	0.9924	0.1521	0.9166	1.136	21.386	0.970	0.000	0.041	0.000	48.99	36	64	85	-

Notes: See notes to Table 46.

Table 52: MC findings for DGPII(a)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9125	0.0147	0.2575	1.013	1.751	0.761	0.064	0.413	0.370	5.06	3	6	9	1.009
	200	0.8881	0.0069	0.2525	1.015	1.708	0.702	0.067	0.362	0.305	4.91	2	7	9	1.008
	300	0.8679	0.0042	0.2354	1.017	1.696	0.663	0.082	0.299	0.253	4.71	2	6.5	9	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8810	0.0126	0.2282	1.012	1.660	0.692	0.078	0.329	0.310	4.73	2	6	8	1.007
	200	0.8553	0.0059	0.2236	1.014	1.618	0.634	0.076	0.278	0.251	4.57	2	6	8	1.004
	300	0.8259	0.0035	0.2032	1.015	1.610	0.587	0.096	0.232	0.215	4.33	1	6	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7933	0.0088	0.1746	1.015	1.563	0.534	0.107	0.176	0.172	4.01	1	6	8	1.003
	200	0.7585	0.0040	0.1688	1.019	1.528	0.471	0.104	0.150	0.147	3.82	1	6	7	1.002
	300	0.7240	0.0024	0.1536	1.022	1.618	0.427	0.099	0.128	0.126	3.60	1	6	7	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9125	0.0146	0.2566	1.013	1.700	0.761	0.064	0.413	0.373	5.06	3	6	9	1.002
	200	0.8881	0.0069	0.2515	1.015	1.684	0.702	0.067	0.362	0.308	4.90	2	7	8	1.000
	300	0.8679	0.0042	0.2343	1.016	1.672	0.663	0.082	0.299	0.255	4.71	2	6	9	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8810	0.0125	0.2273	1.012	1.610	0.692	0.078	0.329	0.311	4.73	2	6	8	1.001
	200	0.8553	0.0058	0.2230	1.014	1.602	0.634	0.076	0.278	0.253	4.57	2	6	8	1.000
	300	0.8259	0.0035	0.2029	1.015	1.604	0.587	0.096	0.232	0.215	4.33	1	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7933	0.0087	0.1742	1.015	1.556	0.534	0.108	0.176	0.173	4.01	1	6	8	1.000
	200	0.7584	0.0040	0.1688	1.019	1.522	0.471	0.104	0.150	0.148	3.82	1	6	7	1.000
	300	0.7240	0.0024	0.1536	1.022	1.618	0.427	0.099	0.128	0.126	3.60	1	6	7	1.000
Penalised regression methods															
Lasso	100	0.7716	0.0522	0.5147	1.035	1.286	0.325	0.022	0.011	0.001	8.09	3	17	45	-
	200	0.7605	0.0394	0.5998	1.044	1.347	0.303	0.017	0.011	0.000	10.77	3	25	48	-
	300	0.7633	0.0338	0.6562	1.047	1.512	0.300	0.009	0.008	0.000	13.07	3	31	65	-
Adaptive Lasso	100	0.5293	0.0140	0.2567	1.042	2.184	0.038	0.008	0.000	0.000	3.46	1	8	40	-
	200	0.5396	0.0130	0.3535	1.054	2.471	0.048	0.008	0.000	0.000	4.71	1	13	39	-
	300	0.5481	0.0127	0.4196	1.065	2.924	0.053	0.003	0.000	0.000	5.97	1	18	45	-
Sica	100	0.2761	0.0056	0.1744	1.077	3.930	0.000	0.000	0.000	0.000	1.64	1	4	12	-
	200	0.2578	0.0024	0.1630	1.083	3.942	0.000	0.000	0.000	0.000	1.50	1	4	11	-
	300	0.2526	0.0014	0.1552	1.083	4.064	0.000	0.000	0.000	0.000	1.43	1	3	10	-
Hard thresholding	100	0.2628	0.0039	0.1381	1.073	3.820	0.000	0.000	0.000	0.000	1.43	1	3	12	-
	200	0.2518	0.0019	0.1458	1.081	3.856	0.000	0.000	0.000	0.000	1.39	1	3	13	-
	300	0.2515	0.0013	0.1454	1.080	4.010	0.000	0.000	0.000	0.000	1.40	1	3	12	-
Boosting methods															
$v = 0.1$	100	0.8570	0.3460	0.9040	1.123	3.907	0.512	0.000	0.057	0.000	36.65	27	47	56	-
	200	0.8476	0.3156	0.9478	1.197	5.357	0.491	0.000	0.049	0.000	65.24	58	72	81	-
	300	0.8410	0.2455	0.9556	1.199	5.442	0.465	0.000	0.042	0.000	76.04	69	84	90	-
$v = 1$	100	0.5381	0.1732	0.8779	1.235	8.352	0.037	0.000	0.001	0.000	18.78	11	29	53	-
	200	0.5245	0.2068	0.9474	1.395	12.738	0.033	0.000	0.002	0.000	42.64	25	67	96	-
	300	0.5154	0.2311	0.9694	1.508	21.028	0.033	0.000	0.001	0.000	70.48	44.5	100	133	-

Notes: See notes to Table 46.

Table 53: MC findings for DGPII(a)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0220	0.3439	1.005	1.963	1.000	0.000	0.999	0.894	6.11	6	7	9	1.004
	200	1.0000	0.0108	0.3442	1.005	1.996	1.000	0.000	0.997	0.888	6.12	6	7	9	1.004
	300	1.0000	0.0071	0.3418	1.005	1.924	1.000	0.001	0.989	0.891	6.10	6	7	8	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3383	1.004	1.900	1.000	0.000	0.996	0.941	6.06	6	7	9	1.001
	200	1.0000	0.0105	0.3381	1.004	1.917	1.000	0.000	0.993	0.936	6.05	6	7	9	1.002
	300	0.9999	0.0069	0.3360	1.004	1.854	1.000	0.001	0.984	0.935	6.03	6	6	8	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0208	0.3320	1.003	1.831	1.000	0.001	0.983	0.971	5.99	6	6	8	1.001
	200	1.0000	0.0102	0.3316	1.003	1.853	1.000	0.002	0.981	0.969	5.99	6	6	7	1.000
	300	0.9998	0.0067	0.3297	1.004	1.800	0.999	0.002	0.965	0.951	5.98	6	6	7	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3436	1.005	1.953	1.000	0.000	0.999	0.898	6.11	6	7	9	1.000
	200	1.0000	0.0108	0.3438	1.005	1.980	1.000	0.000	0.997	0.891	6.11	6	7	9	1.000
	300	1.0000	0.0071	0.3413	1.005	1.908	1.000	0.001	0.989	0.895	6.09	6	7	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3382	1.004	1.898	1.000	0.000	0.996	0.942	6.05	6	7	9	1.000
	200	1.0000	0.0105	0.3379	1.004	1.913	1.000	0.000	0.993	0.937	6.05	6	7	9	1.000
	300	0.9999	0.0069	0.3358	1.004	1.843	1.000	0.001	0.984	0.938	6.03	6	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0208	0.3319	1.003	1.828	1.000	0.001	0.983	0.972	5.99	6	6	8	1.000
	200	1.0000	0.0102	0.3316	1.003	1.853	1.000	0.002	0.981	0.969	5.99	6	6	7	1.000
	300	0.9998	0.0067	0.3297	1.004	1.800	0.999	0.002	0.965	0.951	5.98	6	6	7	1.000
Penalised regression methods															
Lasso	100	0.9741	0.0572	0.4895	1.014	1.744	0.898	0.076	0.056	0.004	9.39	4	18	35	-
	200	0.9731	0.0345	0.5257	1.017	1.829	0.896	0.061	0.043	0.000	10.65	4	22	48	-
	300	0.9659	0.0259	0.5502	1.019	1.787	0.866	0.052	0.034	0.003	11.52	4	25	49	-
Adaptive Lasso	100	0.8299	0.0091	0.1387	1.017	2.923	0.420	0.225	0.001	0.000	4.19	2	8	25	-
	200	0.8215	0.0067	0.1781	1.019	3.150	0.420	0.192	0.000	0.000	4.59	2	9	33	-
	300	0.8248	0.0056	0.2075	1.020	3.106	0.428	0.172	0.001	0.000	4.97	2	11	30	-
Sica	100	0.4750	0.0066	0.1352	1.044	6.738	0.005	0.001	0.000	0.000	2.53	1	6	20	-
	200	0.4181	0.0019	0.0946	1.051	7.424	0.000	0.000	0.000	0.000	2.04	1	4	12	-
	300	0.3925	0.0009	0.0758	1.053	7.298	0.000	0.000	0.000	0.000	1.84	1	4	10	-
Hard thresholding	100	0.4485	0.0026	0.0626	1.045	7.081	0.019	0.007	0.000	0.000	2.05	1	4	15	-
	200	0.3966	0.0009	0.0505	1.053	7.722	0.009	0.003	0.000	0.000	1.77	1	4	11	-
	300	0.3714	0.0005	0.0411	1.055	7.530	0.003	0.001	0.000	0.000	1.62	1	3	9	-
Boosting methods															
$v = 0.1$	100	0.9825	0.3324	0.8878	1.038	3.860	0.930	0.000	0.134	0.000	35.84	27	45	53	-
	200	0.9829	0.3335	0.9427	1.075	6.484	0.933	0.000	0.120	0.000	69.30	58	80	87	-
	300	0.9811	0.2895	0.9561	1.090	7.019	0.925	0.000	0.112	0.000	89.63	82	98	105	-
$v = 1$	100	0.8484	0.1519	0.8005	1.084	9.337	0.463	0.000	0.008	0.000	17.97	12	26	37	-
	200	0.8176	0.1581	0.9007	1.157	15.784	0.372	0.000	0.007	0.000	34.25	24	47	73	-
	300	0.7890	0.1671	0.9380	1.225	20.572	0.309	0.000	0.006	0.000	52.62	38	71	101	-

Notes: See notes to Table 46.

Table 54: MC findings for DGPII(a)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0219	0.3430	1.003	1.987	1.000	0.000	1.000	0.905	6.10	6	7	8	1.003
	200	1.0000	0.0108	0.3437	1.003	1.987	1.000	0.000	1.000	0.897	6.11	6	7	8	1.003
	300	1.0000	0.0072	0.3443	1.003	2.039	1.000	0.000	1.000	0.891	6.12	6	7	8	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0213	0.3379	1.003	1.931	1.000	0.000	1.000	0.953	6.05	6	6	8	1.003
	200	1.0000	0.0105	0.3385	1.003	1.920	1.000	0.000	1.000	0.948	6.06	6	7	8	1.002
	300	1.0000	0.0070	0.3393	1.003	1.964	1.000	0.000	1.000	0.939	6.06	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0209	0.3341	1.002	1.874	1.000	0.000	1.000	0.992	6.01	6	6	7	1.001
	200	1.0000	0.0103	0.3346	1.002	1.850	1.000	0.000	1.000	0.987	6.01	6	6	7	1.001
	300	1.0000	0.0068	0.3348	1.002	1.893	1.000	0.000	1.000	0.985	6.02	6	6	7	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3427	1.003	1.978	1.000	0.000	1.000	0.908	6.10	6	7	8	1.000
	200	1.0000	0.0108	0.3435	1.003	1.976	1.000	0.000	1.000	0.899	6.11	6	7	8	1.000
	300	1.0000	0.0071	0.3440	1.003	2.031	1.000	0.000	1.000	0.894	6.11	6	7	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3377	1.003	1.921	1.000	0.000	1.000	0.956	6.05	6	6	8	1.000
	200	1.0000	0.0105	0.3384	1.003	1.914	1.000	0.000	1.000	0.950	6.05	6	7	8	1.000
	300	1.0000	0.0070	0.3392	1.003	1.959	1.000	0.000	1.000	0.940	6.06	6	7	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3340	1.002	1.872	1.000	0.000	1.000	0.993	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3345	1.002	1.849	1.000	0.000	1.000	0.988	6.01	6	6	7	1.000
	300	1.0000	0.0068	0.3348	1.002	1.893	1.000	0.000	1.000	0.985	6.02	6	6	7	1.000
Penalised regression methods															
Lasso	100	0.9959	0.0577	0.4965	1.008	1.820	0.984	0.055	0.065	0.003	9.52	4	18	31	-
	200	0.9950	0.0351	0.5346	1.010	1.902	0.980	0.058	0.051	0.003	10.87	4	22	45	-
	300	0.9966	0.0262	0.5504	1.011	2.003	0.987	0.050	0.042	0.003	11.74	4	25	56	-
Adaptive Lasso	100	0.9331	0.0058	0.0906	1.009	2.983	0.747	0.524	0.002	0.001	4.29	3	7	28	-
	200	0.9366	0.0048	0.1307	1.010	3.081	0.759	0.443	0.003	0.002	4.69	3	8	36	-
	300	0.9354	0.0047	0.1620	1.010	3.376	0.757	0.405	0.001	0.000	5.13	3	10	40	-
Sica	100	0.6408	0.0074	0.1346	1.026	7.348	0.082	0.015	0.000	0.000	3.27	2	7	15	-
	200	0.5721	0.0023	0.1012	1.031	8.464	0.015	0.002	0.000	0.000	2.74	1	5	13	-
	300	0.5488	0.0013	0.0862	1.033	9.286	0.011	0.002	0.000	0.000	2.58	1	5	12	-
Hard thresholding	100	0.6446	0.0021	0.0433	1.026	7.699	0.185	0.129	0.000	0.000	2.78	1	5	14	-
	200	0.6130	0.0009	0.0412	1.028	8.309	0.148	0.097	0.000	0.000	2.64	1	5	9	-
	300	0.5860	0.0006	0.0413	1.030	9.077	0.104	0.069	0.000	0.000	2.53	1	5	11	-
Boosting methods															
$v = 0.1$	100	0.9973	0.3316	0.8862	1.022	3.846	0.989	0.000	0.149	0.000	35.83	27	44	55	-
	200	0.9970	0.3313	0.9415	1.045	6.391	0.988	0.000	0.145	0.000	68.93	57	80	89	-
	300	0.9979	0.2991	0.9567	1.054	8.004	0.992	0.000	0.138	0.000	92.51	84	101	108	-
$v = 1$	100	0.9465	0.1487	0.7794	1.050	9.398	0.793	0.000	0.018	0.000	18.06	12	26	38	-
	200	0.9395	0.1481	0.8815	1.095	15.560	0.768	0.000	0.017	0.000	32.79	24	43	59	-
	300	0.9280	0.1519	0.9216	1.135	22.683	0.727	0.000	0.018	0.000	48.68	36	63.5	79	-

Notes: See notes to Table 46.

Table 55: MC findings for DGPII(b)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0054	0.0960	1.007	1.296	0.995	0.581	4.51	4	6	8	1.016
	200	0.9984	0.0024	0.0888	1.008	1.329	0.994	0.604	4.46	4	6	7	1.019
	300	0.9979	0.0014	0.0812	1.008	1.327	0.992	0.632	4.42	4	6	8	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9978	0.0039	0.0723	1.006	1.253	0.991	0.668	4.37	4	5	7	1.011
	200	0.9978	0.0017	0.0655	1.006	1.267	0.991	0.690	4.33	4	5	7	1.011
	300	0.9963	0.0010	0.0572	1.006	1.282	0.985	0.722	4.28	4	5	8	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9950	0.0020	0.0379	1.004	1.248	0.980	0.803	4.17	4	5	7	1.004
	200	0.9930	0.0009	0.0338	1.005	1.305	0.972	0.812	4.14	4	5	6	1.005
	300	0.9898	0.0004	0.0262	1.005	1.371	0.959	0.835	4.09	4	5	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9986	0.0052	0.0938	1.006	1.266	0.995	0.589	4.50	4	6	8	1.004
	200	0.9983	0.0023	0.0859	1.007	1.270	0.993	0.616	4.45	4	6	7	1.002
	300	0.9979	0.0014	0.0796	1.007	1.284	0.992	0.637	4.41	4	6	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0039	0.0709	1.005	1.235	0.990	0.673	4.36	4	5	7	1.002
	200	0.9975	0.0017	0.0638	1.005	1.238	0.990	0.698	4.32	4	5	7	1.002
	300	0.9961	0.0010	0.0562	1.005	1.265	0.985	0.726	4.27	4	5	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9946	0.0020	0.0376	1.004	1.251	0.979	0.803	4.17	4	5	7	1.001
	200	0.9926	0.0009	0.0334	1.005	1.307	0.971	0.813	4.14	4	5	6	1.001
	300	0.9895	0.0004	0.0259	1.005	1.373	0.958	0.836	4.09	4	5	6	1.001
Penalised regression methods													
Lasso	100	0.9985	0.0682	0.5293	1.053	2.065	0.995	0.058	10.54	4	21	42	-
	200	0.9985	0.0499	0.6147	1.065	2.274	0.994	0.037	13.78	5	28	54	-
	300	0.9989	0.0409	0.6569	1.071	2.443	0.996	0.028	16.09	5	34	64	-
Adaptive Lasso	100	0.9594	0.0072	0.0944	1.052	3.370	0.857	0.586	4.53	3	8	23	-
	200	0.9628	0.0086	0.1703	1.057	3.529	0.865	0.456	5.55	3	11	39	-
	300	0.9608	0.0090	0.2209	1.065	3.807	0.863	0.374	6.52	3	18	45	-
Sica	100	0.6844	0.0049	0.0863	1.128	8.605	0.182	0.095	3.20	2	6	19	-
	200	0.6300	0.0021	0.0817	1.150	9.455	0.105	0.054	2.94	2	6	14	-
	300	0.6025	0.0012	0.0712	1.157	9.980	0.066	0.032	2.76	1	5	17	-
Hard thresholding	100	0.7398	0.0017	0.0287	1.101	7.853	0.358	0.302	3.13	2	5	16	-
	200	0.7083	0.0011	0.0384	1.118	8.211	0.285	0.212	3.05	2	5	13	-
	300	0.6885	0.0008	0.0409	1.126	8.781	0.258	0.191	2.98	1	5	11	-
Boosting methods													
$v = 0.1$	100	0.9999	0.3769	0.8979	1.140	5.048	1.000	0.000	40.18	30	49	58	-
	200	0.9994	0.3093	0.9379	1.198	6.092	0.998	0.000	64.61	58	71	78	-
	300	0.9994	0.2379	0.9461	1.204	6.107	0.998	0.000	74.43	67	82	92	-
$v = 1$	100	0.9613	0.2159	0.8289	1.276	11.925	0.852	0.000	24.57	14	39	68	-
	200	0.9158	0.2508	0.9248	1.470	19.952	0.696	0.000	52.82	31	82	115	-
	300	0.8706	0.2580	0.9542	1.754	66.110	0.548	0.000	79.86	52	110	135	-

Notes: There are 4 signal variables ($i = 1, 2, 3, 4$) and all noise variables are correlated with signal variables. See notes to Table 1 for a brief summary of the reported statistics. See Section 5 of CKP for a detailed summary of the reported statistics, a description of the design and a description of implementation of individual methods.

Table 56: MC findings for DGPII(b)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0131	0.2299	1.003	1.389	1.000	0.049	5.26	5	6	9	1.013
	200	1.0000	0.0061	0.2204	1.003	1.383	1.000	0.076	5.20	4	6	9	1.008
	300	1.0000	0.0039	0.2129	1.003	1.330	1.000	0.086	5.15	4	6	10	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0118	0.2121	1.002	1.309	1.000	0.068	5.13	4	6	8	1.004
	200	1.0000	0.0054	0.2007	1.002	1.317	1.000	0.111	5.07	4	6	8	1.002
	300	1.0000	0.0035	0.1943	1.002	1.268	1.000	0.121	5.02	4	6	9	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0096	0.1793	1.002	1.225	1.000	0.157	4.92	4	6	7	1.002
	200	1.0000	0.0043	0.1662	1.001	1.215	1.000	0.210	4.85	4	6	7	1.000
	300	1.0000	0.0028	0.1626	1.001	1.184	1.000	0.223	4.83	4	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0130	0.2286	1.003	1.348	1.000	0.050	5.25	5	6	9	1.002
	200	1.0000	0.0061	0.2194	1.003	1.351	1.000	0.076	5.19	4	6	9	1.000
	300	1.0000	0.0039	0.2121	1.002	1.308	1.000	0.086	5.14	4	6	10	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0117	0.2117	1.002	1.296	1.000	0.068	5.13	4	6	8	1.001
	200	1.0000	0.0054	0.2004	1.002	1.304	1.000	0.111	5.06	4	6	8	1.000
	300	1.0000	0.0034	0.1939	1.002	1.254	1.000	0.121	5.02	4	6	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0096	0.1791	1.002	1.219	1.000	0.157	4.92	4	6	7	1.001
	200	1.0000	0.0043	0.1662	1.001	1.215	1.000	0.210	4.85	4	6	7	1.000
	300	1.0000	0.0028	0.1625	1.001	1.181	1.000	0.223	4.83	4	6	7	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0644	0.5204	1.015	1.948	1.000	0.063	10.18	4	20	35	-
	200	1.0000	0.0409	0.5758	1.020	2.135	1.000	0.036	12.02	5	24	50	-
	300	1.0000	0.0318	0.6044	1.021	2.188	1.000	0.032	13.43	5	28	66	-
Adaptive Lasso	100	1.0000	0.0021	0.0257	1.007	2.008	1.000	0.906	4.20	4	5	24	-
	200	1.0000	0.0033	0.0566	1.009	2.327	1.000	0.841	4.66	4	6	36	-
	300	0.9998	0.0039	0.0816	1.011	2.653	0.999	0.799	5.15	4	13.5	47	-
Sica	100	0.9809	0.0021	0.0358	1.010	4.936	0.929	0.789	4.13	3	5	10	-
	200	0.9729	0.0008	0.0260	1.011	5.698	0.901	0.800	4.04	3	5	16	-
	300	0.9651	0.0005	0.0249	1.014	6.237	0.872	0.773	4.00	3	5	11	-
Hard thresholding	100	0.9879	0.0005	0.0079	1.005	4.560	0.962	0.933	4.00	4	4	10	-
	200	0.9849	0.0001	0.0050	1.006	4.881	0.954	0.933	3.97	4	4	9	-
	300	0.9816	0.0001	0.0060	1.007	5.550	0.949	0.923	3.96	3	4	7	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3676	0.8956	1.041	4.763	1.000	0.000	39.29	30	50	58	-
	200	1.0000	0.3431	0.9435	1.075	7.075	1.000	0.000	71.24	62	79	90	-
	300	1.0000	0.2787	0.9536	1.086	7.408	1.000	0.000	86.50	79	94	101	-
$v = 1$	100	1.0000	0.1940	0.8100	1.087	10.892	1.000	0.000	22.62	14	34	52	-
	200	1.0000	0.1956	0.9002	1.165	18.355	1.000	0.000	42.35	28	60	92	-
	300	1.0000	0.2076	0.9358	1.238	24.969	1.000	0.000	65.45	45	93	135	-

Notes: See notes to Table 55.

Table 57: MC findings for DGPII(b)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0165	0.2743	1.002	1.475	1.000	0.001	5.59	5	7	9	1.014
	200	1.0000	0.0075	0.2600	1.002	1.441	1.000	0.003	5.47	5	7	9	1.008
	300	1.0000	0.0048	0.2529	1.002	1.392	1.000	0.005	5.42	5	7	8	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0150	0.2563	1.002	1.396	1.000	0.003	5.44	5	6	8	1.005
	200	1.0000	0.0068	0.2439	1.002	1.373	1.000	0.004	5.34	5	6	8	1.005
	300	1.0000	0.0044	0.2395	1.002	1.341	1.000	0.007	5.31	5	6	8	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0126	0.2268	1.001	1.293	1.000	0.014	5.21	5	6	8	1.001
	200	1.0000	0.0060	0.2214	1.001	1.307	1.000	0.015	5.17	5	6	7	1.002
	300	1.0000	0.0039	0.2178	1.001	1.266	1.000	0.013	5.14	5	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0164	0.2727	1.002	1.430	1.000	0.001	5.57	5	7	9	1.001
	200	1.0000	0.0075	0.2593	1.002	1.419	1.000	0.003	5.47	5	7	9	1.002
	300	1.0000	0.0048	0.2523	1.002	1.368	1.000	0.005	5.41	5	6	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0149	0.2557	1.002	1.378	1.000	0.003	5.43	5	6	8	1.001
	200	1.0000	0.0068	0.2434	1.002	1.357	1.000	0.004	5.34	5	6	8	1.001
	300	1.0000	0.0044	0.2390	1.002	1.325	1.000	0.007	5.30	5	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0126	0.2267	1.001	1.291	1.000	0.014	5.21	5	6	8	1.000
	200	1.0000	0.0060	0.2212	1.001	1.296	1.000	0.015	5.17	5	6	7	1.000
	300	1.0000	0.0039	0.2177	1.001	1.264	1.000	0.013	5.14	5	6	7	1.000
					Penalised regression methods								
Lasso	100	1.0000	0.0634	0.5117	1.010	1.959	1.000	0.064	10.08	4	19.5	33	-
	200	1.0000	0.0408	0.5646	1.011	2.120	1.000	0.052	12.00	4	24	49	-
	300	1.0000	0.0296	0.5832	1.012	2.100	1.000	0.046	12.76	5	28	56	-
Adaptive Lasso	100	1.0000	0.0035	0.0287	1.004	1.952	1.000	0.940	4.33	4	5	20	-
	200	1.0000	0.0041	0.0572	1.005	2.177	1.000	0.900	4.81	4	12	40	-
	300	1.0000	0.0048	0.0925	1.006	2.522	1.000	0.849	5.43	4	17	35	-
Sica	100	0.9991	0.0014	0.0237	1.002	2.126	0.997	0.900	4.13	4	5	8	-
	200	0.9970	0.0004	0.0159	1.002	3.150	0.989	0.920	4.07	4	5	9	-
	300	0.9964	0.0002	0.0113	1.002	3.119	0.986	0.938	4.05	4	4	8	-
Hard thresholding	100	0.9995	0.0006	0.0087	1.001	1.997	0.999	0.968	4.05	4	4	12	-
	200	0.9971	0.0001	0.0047	1.001	4.207	0.993	0.974	4.01	4	4	8	-
	300	0.9991	0.0001	0.0036	1.000	2.326	0.998	0.982	4.02	4	4	6	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3678	0.8959	1.023	4.591	1.000	0.000	39.31	30	50	60	-
	200	1.0000	0.3480	0.9442	1.043	7.192	1.000	0.000	72.20	62	81	92	-
	300	1.0000	0.2891	0.9552	1.052	7.411	1.000	0.000	89.58	82	97	104	-
$v = 1$	100	1.0000	0.1839	0.8013	1.050	10.431	1.000	0.000	21.65	13	32	43	-
	200	1.0000	0.1824	0.8946	1.097	18.056	1.000	0.000	39.75	27	55	79	-
	300	1.0000	0.1876	0.9301	1.144	24.162	1.000	0.000	59.54	42	81	121	-

Notes: See notes to Table 55.

Table 58: MC findings for DGPII(b)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9783	0.0039	0.0715	1.010	1.345	0.916	0.621	4.29	3	6	7	1.011
	200	0.9689	0.0016	0.0610	1.012	1.479	0.885	0.634	4.19	3	5	8	1.011
	300	0.9623	0.0011	0.0616	1.014	1.506	0.857	0.613	4.17	3	5	8	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9690	0.0026	0.0489	1.009	1.326	0.881	0.675	4.13	3	5	7	1.006
	200	0.9575	0.0010	0.0406	1.011	1.456	0.846	0.677	4.03	3	5	7	1.005
	300	0.9514	0.0007	0.0389	1.012	1.475	0.819	0.663	4.00	3	5	7	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9370	0.0012	0.0230	1.011	1.452	0.767	0.673	3.86	3	5	6	1.003
	200	0.9193	0.0004	0.0165	1.014	1.617	0.720	0.657	3.76	3	5	6	1.001
	300	0.9111	0.0003	0.0178	1.015	1.639	0.690	0.631	3.73	3	5	6	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9783	0.0038	0.0699	1.010	1.320	0.916	0.626	4.28	3	6	7	1.002
	200	0.9689	0.0016	0.0592	1.011	1.437	0.885	0.641	4.18	3	5	8	1.001
	300	0.9621	0.0010	0.0598	1.013	1.458	0.857	0.618	4.16	3	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9690	0.0026	0.0478	1.008	1.308	0.881	0.679	4.12	3	5	7	1.001
	200	0.9575	0.0010	0.0397	1.011	1.443	0.846	0.681	4.03	3	5	7	1.001
	300	0.9513	0.0006	0.0376	1.012	1.446	0.819	0.667	3.99	3	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9370	0.0012	0.0225	1.011	1.445	0.767	0.675	3.86	3	5	6	1.000
	200	0.9193	0.0004	0.0163	1.014	1.615	0.720	0.658	3.76	3	5	6	1.000
	300	0.9109	0.0003	0.0170	1.015	1.626	0.690	0.633	3.72	3	5	6	1.000
Penalised regression methods													
Lasso	100	0.9601	0.0632	0.5111	1.052	1.827	0.853	0.054	9.91	4	20	45	-
	200	0.9586	0.0476	0.6001	1.063	2.097	0.848	0.035	13.17	4	28	68	-
	300	0.9570	0.0383	0.6369	1.071	2.194	0.839	0.027	15.16	4	34	73	-
Adaptive Lasso	100	0.7885	0.0107	0.1538	1.058	2.932	0.385	0.164	4.18	2	8	24	-
	200	0.7934	0.0110	0.2400	1.068	3.375	0.389	0.110	5.32	2	13	57	-
	300	0.8053	0.0108	0.2979	1.076	3.539	0.431	0.089	6.41	2	17	58	-
Sica	100	0.4661	0.0043	0.0950	1.109	5.851	0.004	0.001	2.28	1	5	35	-
	200	0.4348	0.0018	0.0903	1.118	6.327	0.001	0.000	2.10	1	4	11	-
	300	0.4139	0.0011	0.0882	1.126	6.464	0.001	0.000	1.99	1	4	13	-
Hard thresholding	100	0.4719	0.0028	0.0603	1.104	5.679	0.018	0.008	2.15	1	4	19	-
	200	0.4506	0.0017	0.0736	1.114	6.221	0.010	0.005	2.14	1	5	16	-
	300	0.4259	0.0011	0.0762	1.123	6.373	0.004	0.001	2.04	1	4	17	-
Boosting methods													
$v = 0.1$	100	0.9861	0.3772	0.8992	1.141	4.739	0.945	0.000	40.15	30	49	55	-
	200	0.9833	0.3116	0.9393	1.200	6.098	0.936	0.000	65.01	58	72	77	-
	300	0.9794	0.2404	0.9476	1.205	5.965	0.920	0.000	75.08	68	83	89	-
$v = 1$	100	0.8026	0.2129	0.8509	1.266	10.336	0.364	0.000	23.65	13	39	68	-
	200	0.7505	0.2530	0.9386	1.440	16.987	0.257	0.000	52.59	31	82	115	-
	300	0.7169	0.2587	0.9623	1.650	56.407	0.182	0.000	79.44	52	109	142	-

Notes: See notes to Table 55.

Table 59: MC findings for DGPII(b)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0106	0.1885	1.003	1.316	1.000	0.192	5.02	4	6	9	1.006
	200	1.0000	0.0047	0.1711	1.003	1.385	1.000	0.258	4.92	4	6	8	1.007
	300	1.0000	0.0030	0.1681	1.003	1.352	1.000	0.252	4.89	4	6	8	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0091	0.1652	1.002	1.248	1.000	0.258	4.87	4	6	8	1.003
	200	1.0000	0.0039	0.1474	1.002	1.296	1.000	0.327	4.77	4	6	8	1.005
	300	1.0000	0.0026	0.1463	1.002	1.265	1.000	0.321	4.76	4	6	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0066	0.1233	1.001	1.161	1.000	0.413	4.63	4	5	7	1.002
	200	1.0000	0.0028	0.1082	1.001	1.171	1.000	0.478	4.55	4	5	7	1.001
	300	1.0000	0.0018	0.1058	1.001	1.152	1.000	0.484	4.54	4	5	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0106	0.1878	1.003	1.301	1.000	0.193	5.01	4	6	9	1.001
	200	1.0000	0.0047	0.1702	1.003	1.354	1.000	0.259	4.91	4	6	8	1.000
	300	1.0000	0.0030	0.1674	1.003	1.331	1.000	0.252	4.89	4	6	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0091	0.1650	1.002	1.242	1.000	0.258	4.87	4	6	8	1.001
	200	1.0000	0.0039	0.1466	1.002	1.274	1.000	0.329	4.77	4	6	8	1.000
	300	1.0000	0.0026	0.1460	1.002	1.258	1.000	0.322	4.76	4	6	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0066	0.1232	1.001	1.156	1.000	0.413	4.63	4	5	7	1.001
	200	1.0000	0.0028	0.1082	1.001	1.169	1.000	0.478	4.55	4	5	7	1.000
	300	1.0000	0.0018	0.1057	1.001	1.148	1.000	0.485	4.54	4	5	7	1.000
Penalised regression methods													
Lasso	100	0.9999	0.0674	0.5300	1.016	1.862	1.000	0.052	10.47	4	20	42	-
	200	1.0000	0.0417	0.5768	1.019	2.089	1.000	0.033	12.17	5	25	49	-
	300	0.9999	0.0320	0.6066	1.022	2.160	1.000	0.037	13.48	5	28	67	-
Adaptive Lasso	100	0.9890	0.0048	0.0677	1.012	2.739	0.959	0.730	4.42	4	7	26	-
	200	0.9906	0.0047	0.1114	1.013	2.971	0.965	0.637	4.89	4	8	37	-
	300	0.9894	0.0042	0.1391	1.013	2.985	0.959	0.580	5.19	4	9	37	-
Sica	100	0.8088	0.0043	0.0707	1.033	7.449	0.408	0.243	3.65	2	6	12	-
	200	0.7535	0.0015	0.0559	1.041	9.035	0.270	0.169	3.31	2	5	12	-
	300	0.7271	0.0009	0.0510	1.045	9.567	0.227	0.142	3.18	2	5	10	-
Hard thresholding	100	0.8509	0.0010	0.0174	1.024	6.983	0.594	0.536	3.50	2	5	12	-
	200	0.8280	0.0004	0.0148	1.027	7.805	0.526	0.474	3.39	2	5	11	-
	300	0.8139	0.0003	0.0147	1.029	7.977	0.495	0.447	3.33	2	4	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3683	0.8959	1.042	4.509	1.000	0.000	39.36	30	49	61	-
	200	1.0000	0.3463	0.9440	1.073	7.196	1.000	0.000	71.88	63	80	87	-
	300	1.0000	0.2823	0.9542	1.085	7.581	1.000	0.000	87.57	80	95	104	-
$v = 1$	100	0.9981	0.1905	0.8074	1.087	10.172	0.993	0.000	22.28	14	33	46	-
	200	0.9946	0.1961	0.9010	1.162	18.449	0.979	0.000	42.41	28	61	87	-
	300	0.9918	0.2077	0.9362	1.233	25.243	0.968	0.000	65.45	44	93	145	-

Notes: See notes to Table 55.

Table 60: MC findings for DGPII(b)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0143	0.2468	1.002	1.426	1.000	0.015	5.38	5	7	9	1.010
	200	1.0000	0.0065	0.2349	1.002	1.403	1.000	0.021	5.28	5	6	9	1.006
	300	1.0000	0.0042	0.2271	1.002	1.413	1.000	0.040	5.23	5	6	8	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0129	0.2294	1.002	1.368	1.000	0.027	5.24	5	6	8	1.007
	200	1.0000	0.0059	0.2185	1.002	1.342	1.000	0.036	5.16	5	6	8	1.005
	300	1.0000	0.0038	0.2114	1.002	1.332	1.000	0.058	5.12	4	6	8	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0109	0.2016	1.001	1.264	1.000	0.072	5.05	4	6	7	1.001
	200	1.0000	0.0050	0.1926	1.001	1.257	1.000	0.088	4.99	4	6	7	1.002
	300	1.0000	0.0032	0.1853	1.001	1.245	1.000	0.124	4.95	4	6	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0142	0.2457	1.002	1.395	1.000	0.015	5.37	5	7	9	1.001
	200	1.0000	0.0065	0.2344	1.002	1.386	1.000	0.021	5.28	5	6	9	1.002
	300	1.0000	0.0041	0.2261	1.002	1.371	1.000	0.040	5.22	5	6	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0129	0.2286	1.002	1.338	1.000	0.027	5.24	5	6	8	1.000
	200	1.0000	0.0059	0.2180	1.002	1.324	1.000	0.036	5.16	5	6	8	1.001
	300	1.0000	0.0038	0.2110	1.002	1.314	1.000	0.058	5.11	4	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0109	0.2015	1.001	1.258	1.000	0.073	5.05	4	6	7	1.000
	200	1.0000	0.0050	0.1924	1.001	1.240	1.000	0.088	4.99	4	6	7	1.000
	300	1.0000	0.0032	0.1853	1.001	1.243	1.000	0.124	4.95	4	6	7	1.000
Penalised regression methods													
Lasso	100	1.0000	0.0654	0.5263	1.009	1.787	1.000	0.050	10.28	4.5	20	35	-
	200	1.0000	0.0417	0.5765	1.011	1.973	1.000	0.034	12.17	5	25	54	-
	300	1.0000	0.0306	0.5993	1.013	2.115	1.000	0.035	13.05	5	26	58	-
Adaptive Lasso	100	0.9996	0.0028	0.0400	1.005	2.175	0.999	0.852	4.27	4	5	25	-
	200	0.9996	0.0035	0.0712	1.005	2.381	0.999	0.777	4.68	4	7	32	-
	300	0.9998	0.0030	0.0926	1.006	2.525	0.999	0.719	4.89	4	7	31	-
Sica	100	0.9474	0.0032	0.0520	1.010	5.675	0.809	0.615	4.10	3	6	12	-
	200	0.9201	0.0012	0.0414	1.014	7.158	0.720	0.568	3.92	3	5	13	-
	300	0.9081	0.0007	0.0373	1.016	7.975	0.680	0.553	3.84	3	5	11	-
Hard thresholding	100	0.9616	0.0006	0.0109	1.007	5.442	0.883	0.839	3.91	3	4	9	-
	200	0.9529	0.0003	0.0089	1.008	6.187	0.860	0.823	3.86	3	4	15	-
	300	0.9533	0.0002	0.0082	1.008	6.379	0.861	0.824	3.86	3	4	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3662	0.8953	1.024	4.335	1.000	0.000	39.16	30	49	61	-
	200	1.0000	0.3499	0.9445	1.044	6.877	1.000	0.000	72.59	62	81	87	-
	300	1.0000	0.2918	0.9556	1.052	7.877	1.000	0.000	90.38	83	98	106	-
$v = 1$	100	1.0000	0.1899	0.8073	1.052	10.049	1.000	0.000	22.23	14	33	51	-
	200	1.0000	0.1839	0.8950	1.099	17.454	1.000	0.000	40.04	27	56	73	-
	300	1.0000	0.1877	0.9302	1.143	25.377	1.000	0.000	59.56	42	80	113	-

Notes: See notes to Table 55.

Table 61: MC findings for DGPII(b)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8006	0.0024	0.0534	1.018	1.473	0.462	0.352	3.44	2	5	8	1.006
	200	0.7590	0.0012	0.0559	1.024	1.692	0.383	0.292	3.27	1	5	8	1.006
	300	0.7155	0.0007	0.0608	1.029	1.771	0.314	0.251	3.08	1	5	9	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7508	0.0015	0.0331	1.020	1.515	0.363	0.305	3.14	1	5	7	1.002
	200	0.7098	0.0007	0.0361	1.026	1.720	0.310	0.259	2.98	1	5	7	1.002
	300	0.6626	0.0004	0.0418	1.032	1.816	0.242	0.209	2.78	1	4	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6214	0.0005	0.0135	1.032	1.766	0.193	0.178	2.54	0	4	7	1.002
	200	0.5818	0.0002	0.0132	1.039	1.958	0.155	0.146	2.36	0	4	6	1.001
	300	0.5415	0.0002	0.0178	1.046	2.045	0.133	0.124	2.21	0	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8006	0.0024	0.0522	1.018	1.455	0.462	0.353	3.43	2	5	8	1.001
	200	0.7590	0.0011	0.0547	1.023	1.668	0.383	0.295	3.26	1	5	8	1.000
	300	0.7155	0.0007	0.0595	1.029	1.754	0.314	0.253	3.08	1	5	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7508	0.0014	0.0326	1.020	1.511	0.363	0.306	3.14	1	5	7	1.000
	200	0.7098	0.0007	0.0358	1.026	1.712	0.310	0.260	2.98	1	5	7	1.000
	300	0.6625	0.0004	0.0414	1.032	1.810	0.242	0.210	2.78	1	4	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6214	0.0005	0.0130	1.032	1.762	0.193	0.179	2.54	0	4	7	1.000
	200	0.5818	0.0002	0.0129	1.039	1.951	0.155	0.147	2.36	0	4	6	1.000
	300	0.5415	0.0002	0.0175	1.046	2.041	0.133	0.124	2.21	0	4	5	1.001
					Penalised regression methods								
Lasso	100	0.8113	0.0597	0.5345	1.040	1.401	0.419	0.026	8.97	3	19.5	42	-
	200	0.7960	0.0438	0.6172	1.050	1.646	0.378	0.010	11.77	3	27	59	-
	300	0.7756	0.0376	0.6767	1.059	1.736	0.335	0.012	14.22	4	34	71	-
Adaptive Lasso	100	0.5830	0.0153	0.2494	1.046	2.179	0.088	0.019	3.80	1	9	24	-
	200	0.5901	0.0144	0.3489	1.060	2.841	0.081	0.008	5.18	1	14	50	-
	300	0.5885	0.0141	0.4350	1.076	3.148	0.092	0.007	6.54	1	19	55	-
Sica	100	0.3403	0.0059	0.1561	1.076	3.766	0.000	0.000	1.92	1	5	15	-
	200	0.3165	0.0027	0.1579	1.085	4.198	0.000	0.000	1.80	1	4	13	-
	300	0.2995	0.0019	0.1619	1.091	4.175	0.000	0.000	1.75	1	4	17	-
Hard thresholding	100	0.3331	0.0041	0.1218	1.072	3.623	0.001	0.000	1.73	1	4	14	-
	200	0.3166	0.0024	0.1454	1.083	4.151	0.000	0.000	1.74	1	4	14	-
	300	0.3015	0.0018	0.1644	1.090	4.186	0.000	0.000	1.75	1	4	14	-
					Boosting methods								
$v = 0.1$	100	0.9086	0.3773	0.9064	1.132	4.588	0.665	0.000	39.85	29	50	56	-
	200	0.8955	0.3135	0.9447	1.196	6.005	0.626	0.000	65.03	58	72	82	-
	300	0.8746	0.2426	0.9534	1.203	5.725	0.573	0.000	75.30	68	83	91	-
$v = 1$	100	0.6280	0.2079	0.8774	1.240	9.065	0.082	0.000	22.47	12	37	67	-
	200	0.6239	0.2550	0.9489	1.411	15.371	0.087	0.000	52.48	30	83	108	-
	300	0.5980	0.2616	0.9687	1.862	>100	0.074	0.000	79.81	51	111	135	-

Notes: See notes to Table 55.

Table 62: MC findings for DGPII(b)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0062	0.1129	1.003	1.299	0.998	0.490	4.59	4	6	8	1.006
	200	0.9995	0.0027	0.0980	1.003	1.350	0.998	0.563	4.52	4	6	9	1.007
	300	0.9988	0.0016	0.0895	1.003	1.315	0.995	0.590	4.46	4	6	8	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0046	0.0863	1.002	1.214	0.997	0.593	4.44	4	5	7	1.003
	200	0.9990	0.0020	0.0741	1.002	1.241	0.996	0.651	4.38	4	5	7	1.002
	300	0.9973	0.0011	0.0658	1.002	1.220	0.989	0.682	4.33	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9974	0.0026	0.0498	1.001	1.135	0.990	0.748	4.24	4	5	6	1.000
	200	0.9970	0.0010	0.0402	1.001	1.123	0.988	0.793	4.19	4	5	6	1.001
	300	0.9946	0.0006	0.0348	1.001	1.134	0.979	0.810	4.15	4	5	7	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0061	0.1120	1.003	1.277	0.998	0.492	4.59	4	6	8	1.000
	200	0.9995	0.0026	0.0968	1.003	1.322	0.998	0.568	4.51	4	6	8	1.000
	300	0.9988	0.0016	0.0889	1.003	1.298	0.995	0.593	4.46	4	6	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0046	0.0859	1.002	1.202	0.997	0.594	4.44	4	5	7	1.000
	200	0.9990	0.0019	0.0737	1.002	1.227	0.996	0.652	4.38	4	5	7	1.000
	300	0.9973	0.0011	0.0656	1.002	1.217	0.989	0.683	4.33	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0026	0.0498	1.001	1.135	0.990	0.748	4.24	4	5	6	1.000
	200	0.9970	0.0010	0.0401	1.001	1.120	0.988	0.793	4.19	4	5	6	1.000
	300	0.9946	0.0006	0.0345	1.001	1.126	0.979	0.811	4.15	4	5	7	1.000
Penalised regression methods													
Lasso	100	0.9876	0.0642	0.5169	1.016	1.816	0.951	0.061	10.11	4	20	45	-
	200	0.9836	0.0397	0.5650	1.021	1.996	0.936	0.046	11.71	4	24	55	-
	300	0.9805	0.0297	0.5862	1.021	2.007	0.924	0.043	12.71	4	26	55	-
Adaptive Lasso	100	0.8780	0.0087	0.1264	1.016	3.002	0.591	0.311	4.35	2	8	21	-
	200	0.8684	0.0073	0.1807	1.020	3.208	0.565	0.224	4.90	2	10	27	-
	300	0.8759	0.0062	0.2131	1.020	3.284	0.593	0.220	5.35	2	11	48	-
Sica	100	0.5460	0.0041	0.0831	1.037	6.656	0.017	0.002	2.58	1	5	15	-
	200	0.4938	0.0013	0.0601	1.043	7.069	0.005	0.001	2.24	1	4	14	-
	300	0.4709	0.0006	0.0435	1.043	7.146	0.002	0.000	2.06	1	4	14	-
Hard thresholding	100	0.5674	0.0018	0.0351	1.033	6.327	0.065	0.039	2.44	1	4.5	16	-
	200	0.5116	0.0008	0.0346	1.040	6.837	0.027	0.012	2.21	1	4	11	-
	300	0.4909	0.0005	0.0304	1.041	6.928	0.017	0.010	2.10	1	4	12	-
Boosting methods													
$v = 0.1$	100	0.9953	0.3673	0.8959	1.042	4.543	0.981	0.000	39.24	29	49	59	-
	200	0.9956	0.3480	0.9445	1.076	7.017	0.983	0.000	72.19	63	80	90	-
	300	0.9954	0.2846	0.9547	1.086	7.400	0.982	0.000	88.23	81	96	105	-
$v = 1$	100	0.9259	0.1855	0.8158	1.086	10.101	0.724	0.000	21.51	13	32	56	-
	200	0.8909	0.1922	0.9092	1.163	17.423	0.601	0.000	41.23	27	59	85	-
	300	0.8639	0.2074	0.9443	1.233	24.263	0.522	0.000	64.84	44	92	151	-

Notes: See notes to Table 55.

Table 63: MC findings for DGPII(b)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0107	0.1909	1.002	1.378	1.000	0.183	5.03	4	6	8	1.005
	200	1.0000	0.0045	0.1661	1.002	1.371	1.000	0.270	4.88	4	6	7	1.005
	300	1.0000	0.0029	0.1607	1.002	1.408	1.000	0.283	4.85	4	6	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0093	0.1693	1.002	1.299	1.000	0.237	4.89	4	6	8	1.004
	200	1.0000	0.0038	0.1430	1.001	1.275	1.000	0.343	4.75	4	6	7	1.002
	300	1.0000	0.0024	0.1374	1.001	1.292	1.000	0.361	4.71	4	6	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0067	0.1260	1.001	1.189	1.000	0.398	4.64	4	5	7	1.001
	200	1.0000	0.0027	0.1056	1.001	1.160	1.000	0.491	4.54	4	5	7	1.001
	300	1.0000	0.0016	0.0958	1.001	1.179	1.000	0.532	4.48	4	5	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0107	0.1902	1.002	1.361	1.000	0.185	5.03	4	6	8	1.000
	200	1.0000	0.0045	0.1653	1.002	1.355	1.000	0.272	4.88	4	6	7	1.000
	300	1.0000	0.0029	0.1604	1.002	1.396	1.000	0.284	4.85	4	6	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0093	0.1688	1.001	1.285	1.000	0.238	4.89	4	6	8	1.000
	200	1.0000	0.0038	0.1428	1.001	1.271	1.000	0.343	4.74	4	6	7	1.000
	300	1.0000	0.0024	0.1373	1.001	1.288	1.000	0.361	4.71	4	6	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0067	0.1259	1.001	1.188	1.000	0.399	4.64	4	5	7	1.000
	200	1.0000	0.0027	0.1055	1.001	1.158	1.000	0.491	4.54	4	5	7	1.000
	300	1.0000	0.0016	0.0958	1.001	1.179	1.000	0.532	4.48	4	5	6	1.000
Penalised regression methods													
Lasso	100	0.9998	0.0648	0.5232	1.010	1.782	0.999	0.054	10.22	4	19	38	-
	200	0.9990	0.0406	0.5714	1.012	1.998	0.996	0.047	11.96	5	24	46	-
	300	0.9984	0.0309	0.5980	1.013	2.096	0.994	0.038	13.14	5	27	49	-
Adaptive Lasso	100	0.9635	0.0061	0.0900	1.009	2.945	0.863	0.575	4.44	3	7	20	-
	200	0.9663	0.0053	0.1330	1.009	3.046	0.875	0.516	4.90	3	9	40	-
	300	0.9678	0.0047	0.1658	1.010	3.108	0.879	0.458	5.26	3	10	33	-
Sica	100	0.7046	0.0045	0.0799	1.023	7.216	0.200	0.081	3.25	2	6	17	-
	200	0.6430	0.0015	0.0577	1.025	8.425	0.090	0.035	2.87	2	5	13	-
	300	0.6128	0.0008	0.0476	1.028	9.004	0.047	0.019	2.67	2	5	11	-
Hard thresholding	100	0.7515	0.0015	0.0261	1.018	6.599	0.353	0.277	3.15	2	5	22	-
	200	0.7119	0.0006	0.0211	1.020	7.483	0.273	0.215	2.96	2	5	10	-
	300	0.6958	0.0004	0.0199	1.021	7.814	0.236	0.188	2.89	2	5	10	-
Boosting methods													
$v = 0.1$	100	0.9998	0.3644	0.8949	1.024	4.209	0.999	0.000	38.98	29	49	58	-
	200	0.9996	0.3519	0.9448	1.045	7.052	0.999	0.000	72.98	63	81	90	-
	300	0.9996	0.2943	0.9560	1.053	7.912	0.999	0.000	91.12	83	99	111	-
$v = 1$	100	0.9885	0.1833	0.8037	1.052	9.631	0.955	0.000	21.56	13	32	51	-
	200	0.9840	0.1813	0.8957	1.098	17.357	0.937	0.000	39.47	27	55	78	-
	300	0.9768	0.1859	0.9312	1.143	24.804	0.908	0.000	58.94	42	79	121	-

Notes: See notes to Table 55.

3.3 Findings for designs with zero net signal effects

Table 64: MC findings for DGPIII

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
				OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0017	0.0307	1.005	1.217	0.999	0.859	4.16	4	5	6	2.014
	200	0.9991	0.0008	0.0297	1.005	1.284	0.997	0.861	4.15	4	5	7	2.021
	300	0.9988	0.0006	0.0349	1.007	1.335	0.995	0.837	4.18	4	5	7	2.021
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0009	0.0175	1.004	1.380	0.996	0.914	4.09	4	5	6	2.012
	200	0.9976	0.0005	0.0178	1.005	1.503	0.992	0.908	4.08	4	5	7	2.023
	300	0.9975	0.0003	0.0183	1.005	1.532	0.991	0.905	4.08	4	5	6	2.021
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9950	0.0002	0.0046	1.005	1.867	0.983	0.960	4.00	4	4	5	2.023
	200	0.9933	0.0001	0.0045	1.006	2.125	0.978	0.957	4.00	4	4	7	2.035
	300	0.9908	0.0001	0.0041	1.008	2.576	0.971	0.952	3.98	4	4	6	2.022
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0015	0.0273	1.004	1.243	0.997	0.872	4.14	4	5	6	2.003
	200	0.9979	0.0007	0.0263	1.005	1.385	0.992	0.873	4.13	4	5	7	2.006
	300	0.9973	0.0006	0.0319	1.007	1.601	0.991	0.846	4.15	4	5	7	2.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9979	0.0008	0.0157	1.004	1.501	0.993	0.919	4.07	4	5	6	2.003
	200	0.9956	0.0004	0.0156	1.005	1.663	0.984	0.911	4.06	4	5	7	2.010
	300	0.9948	0.0003	0.0170	1.007	1.911	0.982	0.903	4.07	4	5	6	2.007
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9926	0.0002	0.0041	1.007	2.149	0.975	0.955	3.99	4	4	5	2.013
	200	0.9893	0.0001	0.0036	1.008	2.602	0.965	0.949	3.98	4	4	7	2.017
	300	0.9876	0.0001	0.0039	1.010	2.969	0.962	0.945	3.97	4	4	6	2.010
				Penalised regression methods									
Lasso	100	0.9989	0.1442	0.7321	1.124	6.853	0.996	0.007	17.84	7	30	50	-
	200	0.9983	0.1032	0.7972	1.155	8.426	0.993	0.001	24.23	9	43	77	-
	300	0.9958	0.0818	0.8249	1.191	10.255	0.984	0.000	28.19	11	50	80	-
Adaptive Lasso	100	0.9878	0.0146	0.1755	1.058	5.532	0.960	0.460	5.35	4	9	36	-
	200	0.9886	0.0191	0.3132	1.072	5.736	0.965	0.282	7.70	4	19	60	-
	300	0.9805	0.0186	0.3896	1.100	7.256	0.947	0.188	9.43	4	32	58	-
Sica	100	0.9381	0.0046	0.0773	1.067	7.222	0.818	0.586	4.19	3	6	13	-
	200	0.9136	0.0024	0.0843	1.091	8.839	0.751	0.532	4.13	3	6	14	-
	300	0.8621	0.0018	0.0997	1.137	12.331	0.654	0.452	3.99	1	6	13	-
Hard thresholding	100	0.9843	0.0015	0.0237	1.019	3.443	0.947	0.862	4.08	3	5	14	-
	200	0.9829	0.0009	0.0296	1.023	3.867	0.946	0.844	4.12	3	5	12	-
	300	0.9790	0.0009	0.0408	1.031	4.576	0.937	0.810	4.19	3	6	14	-
				Boosting methods									
$v = 0.1$	100	1.0000	0.3626	0.8949	1.163	5.772	1.000	0.000	38.81	30	47	54	-
	200	1.0000	0.2944	0.9349	1.232	8.187	1.000	0.000	61.70	55	69	74	-
	300	1.0000	0.2293	0.9441	1.270	10.041	1.000	0.000	71.86	65	79	90	-
$v = 1$	100	0.9994	0.1755	0.7921	1.256	9.024	0.998	0.000	20.84	13	32	52	-
	200	0.9989	0.2089	0.9042	1.426	14.873	0.996	0.000	44.94	28	68	105	-
	300	0.9915	0.2273	0.9412	1.617	40.311	0.967	0.000	71.26	47	100	140	-

Notes: There are 4 signal variables ($\beta_i \neq 0$ for $i = 1, 2, 3, 4$) of which the last one has zero net effect ($\theta_4 = 0$). See notes to Table 1 for a brief summary of the reported statistics. See Section 5 of CKP for a detailed summary of the reported statistics, a description of the design and a description of implementation of individual methods..

Table 65: MC findings for DGPIII

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0234	1.001	1.130	1.000	0.889	4.12	4	5	7	2.010
	200	1.0000	0.0006	0.0243	1.001	1.111	1.000	0.886	4.13	4	5	6	2.006
	300	1.0000	0.0004	0.0242	1.001	1.115	1.000	0.886	4.12	4	5	8	2.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0119	1.001	1.082	1.000	0.943	4.06	4	5	6	2.007
	200	1.0000	0.0003	0.0134	1.001	1.073	1.000	0.936	4.07	4	5	6	2.005
	300	1.0000	0.0002	0.0115	1.001	1.061	1.000	0.944	4.06	4	5	7	2.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0032	1.000	1.026	1.000	0.985	4.02	4	4	6	2.002
	200	1.0000	0.0001	0.0029	1.000	1.019	1.000	0.986	4.01	4	4	5	2.002
	300	1.0000	0.0000	0.0028	1.000	1.018	1.000	0.987	4.01	4	4	6	2.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0199	1.001	1.086	1.000	0.906	4.10	4	5	7	2.001
	200	1.0000	0.0006	0.0222	1.001	1.078	1.000	0.896	4.11	4	5	6	2.001
	300	1.0000	0.0004	0.0224	1.001	1.083	1.000	0.893	4.11	4	5	8	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0098	1.000	1.048	1.000	0.953	4.05	4	4	6	2.000
	200	1.0000	0.0003	0.0123	1.000	1.048	1.000	0.941	4.06	4	5	6	2.001
	300	1.0000	0.0002	0.0107	1.000	1.048	1.000	0.948	4.05	4	5	7	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0024	1.000	1.011	1.000	0.989	4.01	4	4	6	2.000
	200	1.0000	0.0001	0.0024	1.000	1.007	1.000	0.988	4.01	4	4	5	2.000
	300	1.0000	0.0000	0.0027	1.000	1.016	1.000	0.987	4.01	4	4	6	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1521	0.7549	1.032	5.234	1.000	0.001	18.61	10	30	46	-
	200	1.0000	0.0990	0.8011	1.043	6.616	1.000	0.001	23.39	11	40	63	-
	300	1.0000	0.0773	0.8245	1.048	7.439	1.000	0.000	26.88	12	46	77	-
Adaptive Lasso	100	1.0000	0.0060	0.0590	1.006	2.225	1.000	0.813	4.57	4	6	30	-
	200	1.0000	0.0109	0.1302	1.012	2.877	1.000	0.699	6.14	4	22	43	-
	300	1.0000	0.0116	0.1753	1.016	3.518	1.000	0.631	7.42	4	28	46	-
Sica	100	0.9988	0.0007	0.0122	1.003	3.106	0.996	0.944	4.06	4	5	9	-
	200	0.9986	0.0003	0.0111	1.002	2.433	0.995	0.946	4.06	4	4	10	-
	300	0.9979	0.0001	0.0075	1.003	2.874	0.992	0.959	4.03	4	4	7	-
Hard thresholding	100	1.0000	0.0006	0.0105	1.001	1.399	1.000	0.960	4.06	4	4	9	-
	200	1.0000	0.0002	0.0069	1.001	1.330	1.000	0.971	4.04	4	4	8	-
	300	1.0000	0.0001	0.0068	1.001	1.315	1.000	0.972	4.04	4	4	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3605	0.8946	1.046	5.001	1.000	0.000	38.61	30	47	53	-
	200	1.0000	0.3171	0.9392	1.076	7.074	1.000	0.000	66.15	58	73	80	-
	300	1.0000	0.2550	0.9495	1.086	8.161	1.000	0.000	79.47	72	87	97	-
$v = 1$	100	1.0000	0.1540	0.7745	1.081	8.448	1.000	0.000	18.78	12	27	40	-
	200	1.0000	0.1576	0.8802	1.156	14.259	1.000	0.000	34.88	24	47	67	-
	300	1.0000	0.1667	0.9223	1.222	20.249	1.000	0.000	53.35	39	72	100	-

Notes: See notes to Table 64.

Table 66: MC findings for DGPIII

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0216	1.001	1.110	1.000	0.900	4.11	4	5	7	2.007
	200	1.0000	0.0007	0.0250	1.001	1.130	1.000	0.883	4.13	4	5	7	2.006
	300	1.0000	0.0004	0.0246	1.001	1.111	1.000	0.885	4.13	4	5	7	2.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0122	1.000	1.073	1.000	0.943	4.06	4	5	6	2.006
	200	1.0000	0.0003	0.0125	1.000	1.066	1.000	0.940	4.06	4	5	6	2.002
	300	1.0000	0.0002	0.0116	1.000	1.054	1.000	0.945	4.06	4	5	6	2.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0015	1.000	1.012	1.000	0.993	4.01	4	4	6	2.001
	200	1.0000	0.0001	0.0031	1.000	1.016	1.000	0.985	4.02	4	4	5	2.001
	300	1.0000	0.0000	0.0022	1.000	1.010	1.000	0.989	4.01	4	4	5	2.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0188	1.000	1.076	1.000	0.914	4.10	4	5	7	1.998
	200	1.0000	0.0006	0.0229	1.001	1.095	1.000	0.893	4.12	4	5	7	2.001
	300	1.0000	0.0004	0.0226	1.001	1.082	1.000	0.894	4.12	4	5	7	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0106	1.000	1.049	1.000	0.950	4.05	4	4.5	6	2.000
	200	1.0000	0.0003	0.0115	1.000	1.053	1.000	0.945	4.06	4	5	6	2.001
	300	1.0000	0.0002	0.0109	1.000	1.044	1.000	0.948	4.06	4	5	6	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0013	1.000	1.008	1.000	0.994	4.01	4	4	6	2.000
	200	1.0000	0.0001	0.0030	1.000	1.012	1.000	0.985	4.02	4	4	5	2.000
	300	1.0000	0.0000	0.0022	1.000	1.010	1.000	0.989	4.01	4	4	5	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1513	0.7539	1.018	5.268	1.000	0.002	18.53	10	32	54	-
	200	1.0000	0.0974	0.7937	1.024	6.546	1.000	0.000	23.08	10	38	67	-
	300	1.0000	0.0749	0.8149	1.030	7.501	1.000	0.001	26.18	12	45	81	-
Adaptive Lasso	100	1.0000	0.0077	0.0527	1.004	2.237	1.000	0.908	4.74	4	11	28	-
	200	1.0000	0.0140	0.1485	1.008	2.981	1.000	0.785	6.75	4	21	51	-
	300	1.0000	0.0145	0.1978	1.012	3.662	1.000	0.731	8.28	4	27	56	-
Sica	100	0.9996	0.0002	0.0039	1.001	2.207	0.999	0.981	4.02	4	4	7	-
	200	0.9998	0.0001	0.0039	1.000	1.978	0.999	0.983	4.02	4	4	7	-
	300	0.9993	0.0000	0.0023	1.001	2.792	0.997	0.987	4.01	4	4	7	-
Hard thresholding	100	1.0000	0.0004	0.0065	1.000	1.374	1.000	0.976	4.04	4	4	12	-
	200	1.0000	0.0001	0.0045	1.000	1.346	1.000	0.982	4.03	4	4	10	-
	300	1.0000	0.0001	0.0044	1.000	1.365	1.000	0.983	4.03	4	4	10	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3604	0.8946	1.026	4.914	1.000	0.000	38.59	31	47	54	-
	200	1.0000	0.3180	0.9394	1.043	6.949	1.000	0.000	66.33	59	74	79	-
	300	1.0000	0.2586	0.9502	1.051	8.033	1.000	0.000	80.56	73	88	97	-
$v = 1$	100	1.0000	0.1510	0.7711	1.048	8.464	1.000	0.000	18.49	12	26	39	-
	200	1.0000	0.1485	0.8748	1.091	14.427	1.000	0.000	33.10	24	44	55	-
	300	1.0000	0.1539	0.9167	1.135	20.457	1.000	0.000	49.55	36.5	65	87	-

Notes: See notes to Table 64.

Table 67: MC findings for DGPIII

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9569	0.0016	0.0313	1.022	2.877	0.861	0.748	3.98	3	5	7	1.970
	200	0.9346	0.0010	0.0412	1.033	3.663	0.808	0.672	3.93	3	5	8	1.932
	300	0.9145	0.0006	0.0385	1.041	4.183	0.756	0.636	3.83	2	5	7	1.911
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9353	0.0009	0.0183	1.029	3.502	0.806	0.745	3.83	3	5	7	1.943
	200	0.9061	0.0005	0.0232	1.041	4.284	0.737	0.672	3.73	2	5	6	1.895
	300	0.8820	0.0003	0.0248	1.051	4.944	0.691	0.636	3.63	2	5	6	1.866
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8640	0.0002	0.0053	1.053	5.193	0.653	0.646	3.47	1	4	5	1.839
	200	0.8240	0.0002	0.0080	1.070	5.984	0.575	0.560	3.33	1	4	6	1.771
	300	0.7808	0.0001	0.0071	1.086	6.866	0.517	0.507	3.15	1	4	6	1.712
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9379	0.0015	0.0290	1.033	3.775	0.804	0.712	3.89	3	5	7	1.888
	200	0.9071	0.0009	0.0403	1.050	4.745	0.723	0.615	3.81	2	5	8	1.818
	300	0.8824	0.0006	0.0373	1.059	5.341	0.670	0.576	3.69	2	5	7	1.777
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9115	0.0008	0.0173	1.043	4.487	0.743	0.694	3.72	2	4	7	1.844
	200	0.8761	0.0005	0.0229	1.059	5.295	0.657	0.605	3.60	2	5	6	1.773
	300	0.8479	0.0003	0.0238	1.070	5.989	0.600	0.559	3.48	1	4	6	1.726
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8361	0.0002	0.0047	1.069	5.988	0.583	0.576	3.36	1	4	5	1.727
	200	0.7834	0.0001	0.0077	1.092	6.988	0.477	0.469	3.16	1	4	6	1.608
	300	0.7438	0.0001	0.0071	1.106	7.705	0.437	0.430	3.00	1	4	6	1.563
Penalised regression methods													
Lasso	100	0.9418	0.1092	0.6657	1.128	7.100	0.803	0.004	14.25	5	27	50	-
	200	0.9043	0.0726	0.7239	1.161	8.387	0.692	0.000	17.85	5	37	67	-
	300	0.8826	0.0573	0.7601	1.177	9.178	0.632	0.001	20.50	5	43	80	-
Adaptive Lasso	100	0.8145	0.0178	0.2256	1.109	7.221	0.556	0.158	4.96	1	11	24	-
	200	0.7726	0.0167	0.3357	1.139	8.137	0.477	0.063	6.37	1	16	55	-
	300	0.7508	0.0156	0.4128	1.159	8.835	0.422	0.031	7.62	1	19	64	-
Sica	100	0.6445	0.0082	0.1567	1.151	9.154	0.239	0.107	3.37	1	7	17	-
	200	0.5216	0.0035	0.1593	1.194	10.976	0.116	0.046	2.76	1	6	12	-
	300	0.4705	0.0022	0.1601	1.209	11.860	0.071	0.031	2.54	1	6	14	-
Hard thresholding	100	0.8168	0.0041	0.0724	1.079	6.065	0.530	0.381	3.66	1	6	17	-
	200	0.7433	0.0030	0.1079	1.117	7.616	0.400	0.255	3.56	1	6	16	-
	300	0.6901	0.0024	0.1300	1.139	8.708	0.314	0.185	3.46	1	7	18	-
Boosting methods													
$v = 0.1$	100	0.9971	0.3646	0.8956	1.160	5.769	0.989	0.000	38.99	30	48	54	-
	200	0.9918	0.3030	0.9371	1.244	8.319	0.968	0.000	63.35	56.5	70	77	-
	300	0.9856	0.2359	0.9463	1.267	9.585	0.944	0.000	73.76	66	81	88	-
$v = 1$	100	0.9719	0.1744	0.7961	1.252	9.045	0.894	0.000	20.63	12	31	52	-
	200	0.9341	0.2107	0.9105	1.440	15.207	0.759	0.000	45.04	28	70	100	-
	300	0.8923	0.2280	0.9470	1.649	88.784	0.629	0.000	71.07	46	101	125	-

Notes: See notes to Table 64.

Table 68: MC findings for DGPIII

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0215	1.001	1.137	1.000	0.899	4.11	4	5	7	2.004
	200	1.0000	0.0006	0.0247	1.001	1.176	1.000	0.883	4.13	4	5	7	2.005
	300	1.0000	0.0004	0.0243	1.002	1.193	1.000	0.887	4.13	4	5	7	2.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0100	1.001	1.079	1.000	0.952	4.05	4	4	6	2.002
	200	1.0000	0.0003	0.0129	1.001	1.109	1.000	0.939	4.07	4	5	7	2.004
	300	1.0000	0.0002	0.0124	1.001	1.107	1.000	0.942	4.06	4	5	6	2.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0020	1.000	1.020	1.000	0.990	4.01	4	4	5	2.001
	200	1.0000	0.0001	0.0031	1.000	1.039	1.000	0.985	4.02	4	4	5	2.001
	300	1.0000	0.0001	0.0039	1.000	1.043	1.000	0.981	4.02	4	4	6	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0194	1.001	1.110	1.000	0.910	4.10	4	5	7	2.000
	200	1.0000	0.0006	0.0231	1.001	1.142	1.000	0.891	4.12	4	5	7	2.000
	300	1.0000	0.0004	0.0222	1.001	1.143	1.000	0.896	4.12	4	5	7	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0089	1.001	1.059	1.000	0.957	4.05	4	4	6	2.000
	200	1.0000	0.0003	0.0121	1.001	1.088	1.000	0.943	4.06	4	5	7	2.001
	300	1.0000	0.0002	0.0116	1.001	1.084	1.000	0.945	4.06	4	5	6	1.999
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0018	1.000	1.014	1.000	0.991	4.01	4	4	5	2.000
	200	1.0000	0.0001	0.0028	1.000	1.029	1.000	0.986	4.01	4	4	5	2.000
	300	1.0000	0.0001	0.0034	1.000	1.028	1.000	0.984	4.02	4	4	6	1.999
Penalised regression methods													
Lasso	100	1.0000	0.1528	0.7558	1.032	5.282	1.000	0.002	18.67	9	30	44	-
	200	1.0000	0.0976	0.7978	1.042	6.485	1.000	0.001	23.13	11	40	62	-
	300	1.0000	0.0752	0.8194	1.048	7.480	1.000	0.001	26.26	12	45	68	-
Adaptive Lasso	100	0.9994	0.0092	0.1241	1.008	2.854	0.998	0.605	4.88	4	8	33	-
	200	0.9996	0.0097	0.2141	1.010	2.985	0.999	0.429	5.89	4	11	44	-
	300	1.0000	0.0098	0.2799	1.014	3.157	1.000	0.323	6.89	4	13	57	-
Sica	100	0.9893	0.0028	0.0452	1.008	3.703	0.962	0.789	4.22	4	6	15	-
	200	0.9799	0.0012	0.0401	1.011	4.610	0.930	0.774	4.15	3	5	10	-
	300	0.9766	0.0007	0.0359	1.012	4.911	0.917	0.774	4.11	3	5	12	-
Hard thresholding	100	0.9989	0.0009	0.0156	1.002	1.619	0.996	0.930	4.08	4	5	10	-
	200	0.9984	0.0004	0.0138	1.002	1.871	0.995	0.937	4.07	4	5	9	-
	300	0.9984	0.0002	0.0128	1.002	1.668	0.994	0.939	4.07	4	5	11	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3598	0.8944	1.046	4.995	1.000	0.000	38.54	31	47	54	-
	200	1.0000	0.3242	0.9405	1.077	7.126	1.000	0.000	67.55	60	75	83	-
	300	1.0000	0.2642	0.9512	1.089	8.394	1.000	0.000	82.22	75	90	98	-
$v = 1$	100	1.0000	0.1507	0.7713	1.081	8.527	1.000	0.000	18.46	12	26	39	-
	200	1.0000	0.1561	0.8794	1.152	14.156	1.000	0.000	34.59	24	47	79	-
	300	1.0000	0.1657	0.9218	1.216	20.336	1.000	0.000	53.04	38	71	106	-

Notes: See notes to Table 64.

Table 69: MC findings for DGPIII

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0222	1.001	1.158	1.000	0.895	4.11	4	5	7	2.005
	200	1.0000	0.0005	0.0192	1.001	1.139	1.000	0.909	4.10	4	5	6	2.004
	300	1.0000	0.0004	0.0219	1.001	1.154	1.000	0.897	4.11	4	5	6	2.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0110	1.001	1.090	1.000	0.948	4.06	4	5	6	2.003
	200	1.0000	0.0002	0.0082	1.000	1.073	1.000	0.960	4.04	4	4	6	2.002
	300	1.0000	0.0002	0.0103	1.001	1.095	1.000	0.950	4.05	4	4.5	6	2.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0032	1.000	1.039	1.000	0.985	4.02	4	4	6	2.002
	200	1.0000	0.0000	0.0012	1.000	1.016	1.000	0.994	4.01	4	4	5	2.001
	300	1.0000	0.0000	0.0022	1.000	1.026	1.000	0.989	4.01	4	4	5	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0202	1.001	1.131	1.000	0.904	4.10	4	5	7	2.000
	200	1.0000	0.0005	0.0175	1.001	1.113	1.000	0.917	4.09	4	5	6	2.000
	300	1.0000	0.0004	0.0205	1.001	1.113	1.000	0.903	4.11	4	5	6	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0100	1.000	1.078	1.000	0.953	4.05	4	4	6	2.001
	200	1.0000	0.0002	0.0072	1.000	1.054	1.000	0.964	4.04	4	4	5	2.000
	300	1.0000	0.0002	0.0092	1.000	1.063	1.000	0.955	4.05	4	4	6	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0025	1.000	1.021	1.000	0.988	4.01	4	4	6	2.000
	200	1.0000	0.0000	0.0009	1.000	1.008	1.000	0.996	4.00	4	4	5	2.000
	300	1.0000	0.0000	0.0019	1.000	1.019	1.000	0.991	4.01	4	4	5	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1534	0.7585	1.018	4.892	1.000	0.000	18.73	10	30.5	48	-
	200	1.0000	0.0976	0.7996	1.024	6.404	1.000	0.001	23.14	11	38.5	62	-
	300	1.0000	0.0745	0.8160	1.027	7.003	1.000	0.000	26.05	11	45.5	74	-
Adaptive Lasso	100	1.0000	0.0058	0.0722	1.003	2.131	1.000	0.741	4.55	4	6	27	-
	200	1.0000	0.0075	0.1350	1.006	2.587	1.000	0.603	5.48	4	8	49	-
	300	1.0000	0.0083	0.1820	1.007	3.025	1.000	0.515	6.45	4	23	57	-
Sica	100	0.9991	0.0011	0.0190	1.002	1.786	0.997	0.914	4.10	4	5	9	-
	200	0.9971	0.0004	0.0157	1.002	2.586	0.989	0.921	4.07	4	5	10	-
	300	0.9946	0.0002	0.0123	1.003	3.955	0.982	0.926	4.04	4	5	8	-
Hard thresholding	100	1.0000	0.0007	0.0112	1.001	1.326	1.000	0.955	4.07	4	4	12	-
	200	1.0000	0.0002	0.0080	1.001	1.239	1.000	0.967	4.05	4	4	10	-
	300	1.0000	0.0001	0.0071	1.000	1.243	1.000	0.970	4.04	4	4	8	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3592	0.8943	1.026	4.657	1.000	0.000	38.48	31	47	54	-
	200	1.0000	0.3259	0.9407	1.044	7.064	1.000	0.000	67.88	59	76	85	-
	300	1.0000	0.2689	0.9520	1.052	7.867	1.000	0.000	83.58	76	91	103	-
$v = 1$	100	1.0000	0.1472	0.7674	1.049	8.070	1.000	0.000	18.13	12	25	36	-
	200	1.0000	0.1479	0.8741	1.092	14.647	1.000	0.000	32.99	24	44	56	-
	300	1.0000	0.1524	0.9160	1.135	19.949	1.000	0.000	49.12	36	64	85	-

Notes: See notes to Table 64.

Table 70: MC findings for DGPIII

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5789	0.0015	0.0507	1.078	4.600	0.195	0.176	2.46	0	4	6	1.336
	200	0.5326	0.0009	0.0618	1.088	4.765	0.146	0.121	2.30	0	4	6	1.248
	300	0.4759	0.0006	0.0694	1.095	5.103	0.095	0.083	2.07	0	4	6	1.189
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5093	0.0008	0.0320	1.087	4.888	0.136	0.128	2.12	0	4	6	1.252
	200	0.4716	0.0004	0.0328	1.094	4.953	0.104	0.093	1.97	0	4	6	1.185
	300	0.4104	0.0003	0.0472	1.102	5.312	0.059	0.055	1.74	0	4	6	1.128
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3648	0.0002	0.0111	1.107	5.539	0.053	0.052	1.48	0	4	5	1.113
	200	0.3330	0.0001	0.0145	1.112	5.540	0.042	0.040	1.36	0	3	5	1.081
	300	0.2866	0.0001	0.0140	1.118	5.753	0.022	0.020	1.17	0	3	5	1.054
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5429	0.0014	0.0508	1.087	4.848	0.117	0.109	2.31	0	4	5	1.187
	200	0.5026	0.0008	0.0620	1.095	4.946	0.084	0.072	2.17	0	4	6	1.124
	300	0.4510	0.0006	0.0698	1.101	5.241	0.051	0.045	1.97	0	4	6	1.087
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4801	0.0008	0.0320	1.093	5.068	0.079	0.075	2.00	0	4	5	1.134
	200	0.4484	0.0004	0.0323	1.099	5.078	0.059	0.054	1.87	0	4	6	1.090
	300	0.3944	0.0003	0.0473	1.106	5.394	0.032	0.029	1.67	0	4	5	1.063
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3501	0.0002	0.0108	1.110	5.610	0.028	0.028	1.42	0	3	5	1.054
	200	0.3208	0.0001	0.0143	1.115	5.592	0.020	0.019	1.31	0	3	5	1.031
	300	0.2800	0.0001	0.0138	1.119	5.781	0.011	0.010	1.14	0	3	5	1.027
Penalised regression methods													
Lasso	100	0.7093	0.0786	0.6386	1.097	4.948	0.260	0.001	10.38	3	23	44	-
	200	0.6351	0.0504	0.6988	1.109	5.256	0.145	0.000	12.41	3	29	63	-
	300	0.6079	0.0416	0.7500	1.116	5.538	0.095	0.000	14.76	3	35	70	-
Adaptive Lasso	100	0.5020	0.0191	0.3128	1.098	5.212	0.101	0.013	3.84	1	10	22	-
	200	0.4590	0.0152	0.4168	1.116	5.653	0.063	0.001	4.82	1	14	37	-
	300	0.4413	0.0142	0.5025	1.130	6.125	0.041	0.002	5.96	1	18	57	-
Sica	100	0.3678	0.0106	0.2542	1.132	6.571	0.011	0.004	2.48	1	6	15	-
	200	0.3086	0.0046	0.2488	1.141	6.871	0.005	0.001	2.14	1	6	16	-
	300	0.2863	0.0032	0.2789	1.149	7.198	0.002	0.001	2.08	1	5	13	-
Hard thresholding	100	0.4368	0.0097	0.2202	1.120	6.151	0.046	0.013	2.68	1	7	21	-
	200	0.3481	0.0057	0.2619	1.144	6.946	0.016	0.001	2.51	1	7	19	-
	300	0.3189	0.0040	0.2943	1.153	7.374	0.008	0.003	2.45	1	7	19	-
Boosting methods													
$v = 0.1$	100	0.9448	0.3614	0.8998	1.157	5.455	0.803	0.000	38.48	29	47	55	-
	200	0.9071	0.3106	0.9435	1.239	7.563	0.684	0.000	64.51	58	72	80	-
	300	0.8556	0.2414	0.9541	1.256	8.272	0.525	0.000	74.88	68	83	92	-
$v = 1$	100	0.8270	0.1734	0.8227	1.246	8.589	0.459	0.000	19.95	12	30	55	-
	200	0.7468	0.2083	0.9268	1.423	13.923	0.294	0.000	43.82	26	67.5	96	-
	300	0.6901	0.2292	0.9590	1.602	66.647	0.213	0.000	70.60	45	101	123	-

Notes: See notes to Table 64.

Table 71: MC findings for DGPIII

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0011	0.0211	1.002	1.244	0.996	0.897	4.10	4	5	7	1.998
	200	0.9983	0.0006	0.0227	1.002	1.357	0.993	0.888	4.11	4	5	7	2.004
	300	0.9965	0.0004	0.0232	1.003	1.742	0.986	0.880	4.11	4	5	7	1.993
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9986	0.0005	0.0102	1.001	1.226	0.995	0.945	4.05	4	4.5	6	1.998
	200	0.9970	0.0003	0.0111	1.001	1.357	0.988	0.936	4.05	4	5	6	2.001
	300	0.9938	0.0002	0.0123	1.003	1.947	0.976	0.920	4.04	4	5	7	1.987
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9943	0.0001	0.0022	1.001	1.561	0.979	0.968	3.99	4	4	5	1.993
	200	0.9904	0.0001	0.0023	1.002	1.999	0.964	0.953	3.97	4	4	5	1.985
	300	0.9846	0.0001	0.0034	1.003	2.490	0.942	0.927	3.96	3	4	6	1.972
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9973	0.0011	0.0202	1.002	1.563	0.989	0.896	4.09	4	5	7	1.989
	200	0.9940	0.0006	0.0216	1.003	2.083	0.977	0.880	4.09	4	5	7	1.981
	300	0.9901	0.0004	0.0228	1.005	2.595	0.961	0.861	4.08	4	5	7	1.965
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9960	0.0005	0.0099	1.002	1.692	0.984	0.937	4.03	4	4	6	1.987
	200	0.9909	0.0003	0.0104	1.003	2.303	0.965	0.916	4.02	4	4	6	1.973
	300	0.9870	0.0002	0.0121	1.005	2.768	0.949	0.899	4.01	4	5	6	1.958
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9900	0.0001	0.0021	1.002	2.153	0.962	0.952	3.97	4	4	5	1.976
	200	0.9813	0.0001	0.0023	1.005	3.049	0.930	0.918	3.94	3	4	5	1.948
	300	0.9733	0.0001	0.0035	1.007	3.563	0.899	0.885	3.91	3	4	6	1.926
Penalised regression methods													
Lasso	100	0.9939	0.1336	0.7093	1.035	5.783	0.978	0.006	16.80	7	30	48	-
	200	0.9851	0.0812	0.7435	1.046	7.602	0.945	0.005	19.86	7	37	74	-
	300	0.9759	0.0603	0.7532	1.053	8.584	0.911	0.001	21.77	6	43	78	-
Adaptive Lasso	100	0.9520	0.0156	0.1994	1.023	5.469	0.856	0.331	5.31	3	10	21	-
	200	0.9354	0.0143	0.2919	1.029	6.399	0.819	0.207	6.54	2	14	36	-
	300	0.9169	0.0121	0.3352	1.035	7.138	0.780	0.153	7.25	2	17	46	-
Sica	100	0.8313	0.0067	0.1050	1.033	6.954	0.513	0.280	3.97	1	7	20	-
	200	0.7479	0.0026	0.0928	1.044	9.379	0.371	0.197	3.50	1	6	12	-
	300	0.6944	0.0015	0.0889	1.052	10.552	0.281	0.161	3.21	1	6	15	-
Hard thresholding	100	0.9349	0.0023	0.0388	1.012	3.919	0.785	0.639	3.96	3	5	11	-
	200	0.9126	0.0010	0.0345	1.015	4.904	0.731	0.613	3.84	3	5	9	-
	300	0.8993	0.0006	0.0356	1.018	5.293	0.692	0.578	3.79	2	5	9	-
Boosting methods													
$v = 0.1$	100	0.9999	0.3583	0.8939	1.045	4.770	1.000	0.000	38.40	30	47	55	-
	200	0.9996	0.3310	0.9416	1.079	7.496	0.999	0.000	68.88	60	77	86	-
	300	0.9996	0.2729	0.9527	1.094	8.733	0.999	0.000	84.79	77	93	103	-
$v = 1$	100	0.9980	0.1504	0.7706	1.078	7.945	0.992	0.000	18.43	12	26	36	-
	200	0.9964	0.1559	0.8795	1.151	14.434	0.986	0.000	34.53	24	48	68	-
	300	0.9945	0.1651	0.9218	1.220	20.426	0.978	0.000	52.85	38	72.5	112	-

Notes: See notes to Table 64.

Table 72: MC findings for DGPIII

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0207	1.001	1.177	1.000	0.905	4.11	4	5	7	2.002
	200	1.0000	0.0005	0.0205	1.001	1.198	1.000	0.905	4.11	4	5	7	2.003
	300	1.0000	0.0004	0.0226	1.001	1.235	1.000	0.892	4.12	4	5	7	2.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0117	1.001	1.119	1.000	0.944	4.06	4	5	6	2.002
	200	1.0000	0.0003	0.0117	1.001	1.122	1.000	0.945	4.06	4	5	7	2.002
	300	1.0000	0.0002	0.0121	1.001	1.151	1.000	0.941	4.06	4	5	7	2.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0024	1.000	1.031	1.000	0.989	4.01	4	4	6	2.000
	200	1.0000	0.0001	0.0027	1.000	1.035	1.000	0.987	4.01	4	4	6	2.000
	300	1.0000	0.0000	0.0029	1.000	1.048	1.000	0.986	4.01	4	4	5	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0198	1.001	1.166	1.000	0.910	4.10	4	5	7	1.999
	200	1.0000	0.0005	0.0198	1.001	1.184	1.000	0.909	4.10	4	5	7	2.000
	300	1.0000	0.0004	0.0218	1.001	1.217	1.000	0.896	4.11	4	5	7	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0110	1.001	1.106	1.000	0.948	4.06	4	5	6	2.000
	200	1.0000	0.0003	0.0111	1.001	1.111	1.000	0.948	4.06	4	5	7	2.000
	300	1.0000	0.0002	0.0115	1.001	1.134	1.000	0.944	4.06	4	5	7	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0023	1.000	1.029	1.000	0.989	4.01	4	4	6	2.000
	200	1.0000	0.0001	0.0027	1.000	1.035	1.000	0.987	4.01	4	4	6	2.000
	300	1.0000	0.0000	0.0027	1.000	1.041	1.000	0.987	4.01	4	4	5	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1533	0.7521	1.019	5.149	1.000	0.003	18.72	9	31	46	-
	200	1.0000	0.0955	0.7864	1.025	6.353	1.000	0.003	22.73	9	39	64	-
	300	1.0000	0.0734	0.8103	1.029	7.572	1.000	0.001	25.73	10	46	91	-
Adaptive Lasso	100	0.9979	0.0120	0.1621	1.007	3.281	0.993	0.494	5.14	4	9	29	-
	200	0.9963	0.0121	0.2634	1.009	3.698	0.987	0.331	6.36	4	12	45	-
	300	0.9964	0.0108	0.3195	1.010	3.912	0.987	0.269	7.20	4	15	43	-
Sica	100	0.9645	0.0047	0.0732	1.009	4.499	0.874	0.614	4.31	3	6	24	-
	200	0.9408	0.0017	0.0562	1.012	5.747	0.798	0.602	4.10	3	6	14	-
	300	0.9256	0.0010	0.0510	1.014	6.849	0.755	0.581	4.00	3	6	11	-
Hard thresholding	100	0.9929	0.0014	0.0229	1.002	2.210	0.974	0.882	4.10	4	5	12	-
	200	0.9886	0.0005	0.0175	1.003	2.465	0.957	0.887	4.05	4	5	8	-
	300	0.9878	0.0004	0.0188	1.003	2.753	0.955	0.881	4.06	4	5	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3587	0.8941	1.027	4.676	1.000	0.000	38.44	31	46.5	55	-
	200	1.0000	0.3324	0.9418	1.046	6.855	1.000	0.000	69.15	59	77	84	-
	300	1.0000	0.2773	0.9534	1.055	8.412	1.000	0.000	86.09	78	94	102	-
$v = 1$	100	1.0000	0.1479	0.7678	1.048	8.034	1.000	0.000	18.19	12	26	36	-
	200	1.0000	0.1466	0.8733	1.092	13.678	1.000	0.000	32.73	23	44	54	-
	300	1.0000	0.1516	0.9158	1.135	20.383	1.000	0.000	48.89	36	63	91	-

Notes: See notes to Table 64.

3.4 Findings for designs with zero net signal effects and pseudo-signals

Table 73: MC findings for DGPIV(a)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9989	0.0208	0.3275	1.015	2.090	0.996	0.010	0.849	0.728	6.00	5	7	9	2.013
	200	0.9990	0.0099	0.3186	1.015	2.052	0.996	0.020	0.788	0.666	5.94	5	7	9	2.021
	300	0.9978	0.0065	0.3167	1.017	2.250	0.991	0.020	0.765	0.635	5.92	5	7	9	2.019
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9989	0.0195	0.3129	1.013	2.032	0.996	0.017	0.801	0.735	5.87	5	7	9	2.010
	200	0.9983	0.0090	0.2978	1.013	2.013	0.993	0.038	0.720	0.660	5.77	5	7	9	2.023
	300	0.9965	0.0060	0.2986	1.015	2.351	0.987	0.034	0.706	0.640	5.76	5	7	9	2.021
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9958	0.0169	0.2798	1.013	2.284	0.985	0.052	0.656	0.645	5.61	4	6	8	2.019
	200	0.9910	0.0077	0.2606	1.015	2.643	0.968	0.082	0.569	0.553	5.46	4	6	7	2.023
	300	0.9896	0.0050	0.2592	1.017	2.970	0.963	0.083	0.548	0.533	5.44	4	6	8	2.021
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9986	0.0207	0.3257	1.015	2.083	0.995	0.010	0.848	0.740	5.98	5	7	9	2.004
	200	0.9984	0.0098	0.3165	1.014	2.042	0.994	0.020	0.788	0.681	5.91	5	7	9	2.006
	300	0.9968	0.0064	0.3148	1.016	2.401	0.988	0.020	0.765	0.649	5.90	5	7	9	2.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9986	0.0194	0.3115	1.013	2.033	0.995	0.018	0.799	0.742	5.86	5	7	9	2.006
	200	0.9961	0.0090	0.2966	1.014	2.304	0.986	0.037	0.720	0.669	5.74	5	7	9	2.007
	300	0.9945	0.0059	0.2974	1.016	2.491	0.979	0.032	0.706	0.650	5.74	5	7	8	2.005
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9936	0.0169	0.2795	1.014	2.490	0.978	0.052	0.656	0.649	5.59	4	6	8	2.010
	200	0.9879	0.0076	0.2604	1.017	3.009	0.958	0.077	0.565	0.551	5.45	4	6	7	2.012
	300	0.9868	0.0050	0.2587	1.019	3.189	0.953	0.079	0.545	0.532	5.42	4	6	8	2.009
Penalised regression methods															
Lasso	100	0.9983	0.1493	0.7444	1.123	7.570	0.994	0.002	0.096	0.000	18.32	8	30	48	-
	200	0.9953	0.1046	0.8015	1.164	9.249	0.982	0.000	0.087	0.000	24.47	10	44	61	-
	300	0.9936	0.0815	0.8246	1.192	11.228	0.976	0.000	0.077	0.000	28.09	10	50	74	-
Adaptive Lasso	100	0.9835	0.0160	0.1981	1.059	6.072	0.948	0.409	0.005	0.002	5.47	4	10	29	-
	200	0.9774	0.0194	0.3234	1.082	6.676	0.929	0.256	0.006	0.000	7.71	4	20	51	-
	300	0.9744	0.0185	0.3981	1.101	7.823	0.921	0.172	0.010	0.000	9.38	4	29	54	-
Sica	100	0.8891	0.0072	0.1273	1.090	10.047	0.645	0.458	0.000	0.000	4.25	3	6	18	-
	200	0.8704	0.0035	0.1303	1.110	11.069	0.616	0.436	0.000	0.000	4.16	3	6	17	-
	300	0.8240	0.0024	0.1402	1.148	14.176	0.533	0.377	0.000	0.000	4.00	1	7	12	-
Hard thresholding	100	0.9691	0.0022	0.0389	1.026	5.105	0.895	0.813	0.000	0.000	4.09	3.5	5	11	-
	200	0.9636	0.0014	0.0509	1.032	5.122	0.866	0.761	0.000	0.000	4.13	3	5	14	-
	300	0.9576	0.0010	0.0527	1.037	6.200	0.858	0.746	0.000	0.000	4.13	3	5	16	-
Boosting methods															
$v = 0.1$	100	0.9995	0.3680	0.8964	1.166	6.726	0.998	0.000	0.195	0.000	39.33	30	47	54	-
	200	0.9994	0.2962	0.9353	1.238	9.049	0.998	0.000	0.181	0.000	62.06	55	69	79	-
	300	0.9991	0.2303	0.9444	1.264	10.974	0.997	0.000	0.163	0.000	72.16	65	80	89	-
$v = 1$	100	0.9893	0.1792	0.7979	1.259	10.862	0.958	0.000	0.051	0.000	21.16	13	32	46	-
	200	0.9818	0.2081	0.9052	1.433	16.350	0.928	0.000	0.044	0.000	44.72	28	69	105	-
	300	0.9721	0.2273	0.9422	2.519	>100	0.893	0.000	0.053	0.000	71.16	46.5	101	123	-

Notes: See notes to Table 46.

Table 74: MC findings for DGPIV(a)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3443	1.005	1.996	1.000	0.000	1.000	0.892	6.12	6	7	9	2.007
	200	1.0000	0.0109	0.3454	1.005	1.978	1.000	0.000	1.000	0.884	6.13	6	7	10	2.008
	300	1.0000	0.0072	0.3455	1.005	2.003	1.000	0.000	1.000	0.884	6.13	6	7	9	2.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3381	1.004	1.947	1.000	0.000	1.000	0.952	6.05	6	6	8	2.003
	200	1.0000	0.0106	0.3405	1.005	1.935	1.000	0.000	1.000	0.928	6.08	6	7	9	2.006
	300	1.0000	0.0070	0.3397	1.004	1.949	1.000	0.000	1.000	0.938	6.07	6	7	9	2.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3345	1.004	1.906	1.000	0.000	1.000	0.988	6.01	6	6	8	2.001
	200	1.0000	0.0103	0.3350	1.004	1.871	1.000	0.000	1.000	0.982	6.02	6	6	7	2.002
	300	1.0000	0.0068	0.3347	1.004	1.902	1.000	0.000	1.000	0.986	6.01	6	6	7	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3428	1.004	1.956	1.000	0.000	1.000	0.907	6.10	6	7	9	2.000
	200	1.0000	0.0108	0.3442	1.005	1.936	1.000	0.000	1.000	0.896	6.12	6	7	10	2.001
	300	1.0000	0.0072	0.3442	1.005	1.965	1.000	0.000	1.000	0.895	6.12	6	7	9	2.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3376	1.004	1.931	1.000	0.000	1.000	0.957	6.05	6	6	8	2.000
	200	1.0000	0.0106	0.3398	1.004	1.906	1.000	0.000	1.000	0.935	6.07	6	7	9	2.000
	300	1.0000	0.0070	0.3391	1.004	1.935	1.000	0.000	1.000	0.944	6.06	6	7	9	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3343	1.004	1.900	1.000	0.000	1.000	0.990	6.01	6	6	7	2.000
	200	1.0000	0.0103	0.3348	1.004	1.862	1.000	0.000	1.000	0.984	6.02	6	6	7	2.000
	300	1.0000	0.0068	0.3345	1.004	1.896	1.000	0.000	1.000	0.988	6.01	6	6	7	2.001
Penalised regression methods															
Lasso	100	1.0000	0.1536	0.7584	1.033	5.961	1.000	0.000	0.099	0.000	18.75	9	30	44	-
	200	1.0000	0.1015	0.8058	1.043	7.255	1.000	0.000	0.093	0.000	23.90	11	41	68	-
	300	1.0000	0.0758	0.8196	1.050	8.208	1.000	0.000	0.076	0.000	26.42	12	46.5	81	-
Adaptive Lasso	100	1.0000	0.0074	0.0668	1.007	2.444	1.000	0.792	0.002	0.000	4.71	4	6	31	-
	200	1.0000	0.0100	0.1287	1.011	3.017	1.000	0.687	0.007	0.000	5.96	4	20	40	-
	300	1.0000	0.0118	0.1780	1.017	3.880	1.000	0.619	0.007	0.001	7.50	4	28	58	-
Sica	100	0.9746	0.0022	0.0431	1.011	12.566	0.901	0.833	0.000	0.000	4.11	4	5	9	-
	200	0.9704	0.0010	0.0416	1.013	12.942	0.883	0.836	0.000	0.000	4.07	4	5	12	-
	300	0.9726	0.0006	0.0364	1.011	12.330	0.892	0.857	0.000	0.000	4.06	4	4	9	-
Hard thresholding	100	1.0000	0.0006	0.0092	1.001	1.483	1.000	0.965	0.000	0.000	4.06	4	4	12	-
	200	0.9998	0.0003	0.0089	1.001	1.975	0.999	0.965	0.000	0.000	4.05	4	4	9	-
	300	0.9998	0.0002	0.0075	1.001	1.886	0.999	0.972	0.000	0.000	4.04	4	4	10	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3612	0.8948	1.047	5.736	1.000	0.000	0.173	0.000	38.68	30	47	55	-
	200	1.0000	0.3181	0.9394	1.076	7.926	1.000	0.000	0.166	0.000	66.35	59	73	82	-
	300	1.0000	0.2564	0.9498	1.089	9.033	1.000	0.000	0.144	0.000	79.91	72	88	97	-
$v = 1$	100	1.0000	0.1544	0.7751	1.082	9.757	1.000	0.000	0.078	0.000	18.82	12	27	40	-
	200	1.0000	0.1578	0.8807	1.154	15.830	1.000	0.000	0.064	0.000	34.92	25	48	68	-
	300	1.0000	0.1674	0.9225	1.225	21.998	1.000	0.000	0.061	0.000	53.56	39	72	121	-

Notes: See notes to Table 46.

Table 75: MC findings for DGPIV(a)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3445	1.003	1.948	1.000	0.000	1.000	0.890	6.12	6	7	9	2.008
	200	1.0000	0.0108	0.3440	1.003	2.009	1.000	0.000	1.000	0.898	6.12	6	7	9	2.007
	300	1.0000	0.0072	0.3444	1.003	1.959	1.000	0.000	1.000	0.891	6.12	6	7	9	2.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3392	1.003	1.905	1.000	0.000	1.000	0.943	6.06	6	7	9	2.002
	200	1.0000	0.0105	0.3391	1.002	1.969	1.000	0.000	1.000	0.943	6.06	6	7	8	2.004
	300	1.0000	0.0070	0.3391	1.003	1.861	1.000	0.000	1.000	0.943	6.06	6	7	9	2.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3346	1.002	1.878	1.000	0.000	1.000	0.987	6.01	6	6	7	2.001
	200	1.0000	0.0103	0.3346	1.002	1.925	1.000	0.000	1.000	0.988	6.01	6	6	8	2.002
	300	1.0000	0.0068	0.3341	1.002	1.808	1.000	0.000	1.000	0.992	6.01	6	6	7	2.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3435	1.003	1.920	1.000	0.000	1.000	0.900	6.11	6	7	9	1.999
	200	1.0000	0.0107	0.3428	1.003	1.978	1.000	0.000	1.000	0.909	6.10	6	7	9	2.001
	300	1.0000	0.0071	0.3432	1.003	1.880	1.000	0.000	1.000	0.902	6.11	6	7	9	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3388	1.003	1.895	1.000	0.000	1.000	0.946	6.06	6	7	9	2.000
	200	1.0000	0.0105	0.3386	1.002	1.951	1.000	0.000	1.000	0.948	6.06	6	7	8	2.000
	300	1.0000	0.0069	0.3384	1.003	1.843	1.000	0.000	1.000	0.949	6.05	6	7	8	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3344	1.002	1.874	1.000	0.000	1.000	0.989	6.01	6	6	7	2.000
	200	1.0000	0.0103	0.3344	1.002	1.917	1.000	0.000	1.000	0.990	6.01	6	6	8	2.000
	300	1.0000	0.0068	0.3340	1.002	1.806	1.000	0.000	1.000	0.993	6.01	6	6	7	2.000
Penalised regression methods															
Lasso	100	1.0000	0.1516	0.7533	1.019	5.651	1.000	0.001	0.097	0.000	18.55	10	32	47	-
	200	1.0000	0.0974	0.7957	1.026	7.284	1.000	0.000	0.097	0.000	23.09	10	37	59	-
	300	1.0000	0.0759	0.8190	1.029	7.923	1.000	0.000	0.081	0.000	26.45	12	46	85	-
Adaptive Lasso	100	1.0000	0.0073	0.0513	1.004	2.187	1.000	0.905	0.001	0.000	4.70	4	10	35	-
	200	1.0000	0.0131	0.1386	1.008	3.073	1.000	0.795	0.005	0.000	6.56	4	21	40	-
	300	1.0000	0.0157	0.2146	1.013	3.930	1.000	0.706	0.012	0.000	8.65	4	28	46	-
Sica	100	0.9804	0.0013	0.0283	1.008	16.877	0.922	0.890	0.000	0.000	4.05	4	4	8	-
	200	0.9783	0.0006	0.0264	1.008	18.164	0.914	0.892	0.000	0.000	4.03	4	4	7	-
	300	0.9781	0.0004	0.0268	1.008	17.468	0.913	0.894	0.000	0.000	4.03	4	4	7	-
Hard thresholding	100	1.0000	0.0005	0.0073	1.001	1.383	1.000	0.973	0.000	0.000	4.04	4	4	10	-
	200	1.0000	0.0002	0.0057	1.000	1.415	1.000	0.977	0.000	0.000	4.03	4	4	9	-
	300	1.0000	0.0001	0.0047	1.000	1.341	1.000	0.982	0.000	0.000	4.03	4	4	8	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3594	0.8944	1.027	5.357	1.000	0.000	0.171	0.000	38.50	30	47	53	-
	200	1.0000	0.3197	0.9397	1.044	7.732	1.000	0.000	0.155	0.000	66.66	59	74	80	-
	300	1.0000	0.2603	0.9505	1.052	8.583	1.000	0.000	0.134	0.000	81.05	74	89	97	-
$v = 1$	100	1.0000	0.1506	0.7704	1.049	9.352	1.000	0.000	0.067	0.000	18.46	12	27	38	-
	200	1.0000	0.1503	0.8757	1.093	15.956	1.000	0.000	0.057	0.000	33.46	23	45	60	-
	300	1.0000	0.1542	0.9169	1.135	21.373	1.000	0.000	0.063	0.000	49.64	37	65.5	92	-

Notes: See notes to Table 46.

Table 76: MC findings for DGPIV(a)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9571	0.0167	0.2760	1.028	3.293	0.864	0.055	0.515	0.433	5.43	3	7	9	1.965
	200	0.9340	0.0075	0.2616	1.039	4.190	0.795	0.071	0.404	0.348	5.20	3	7	9	1.933
	300	0.9194	0.0049	0.2607	1.046	4.495	0.761	0.075	0.373	0.316	5.12	3	7	9	1.909
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9340	0.0147	0.2524	1.034	3.857	0.807	0.078	0.435	0.395	5.14	3	6	8	1.939
	200	0.9069	0.0065	0.2356	1.046	4.776	0.729	0.087	0.324	0.295	4.90	3	6	9	1.897
	300	0.8859	0.0041	0.2305	1.055	5.185	0.698	0.098	0.290	0.268	4.76	2	6	8	1.858
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8636	0.0112	0.2087	1.060	5.498	0.651	0.106	0.260	0.254	4.53	2	6	7	1.830
	200	0.8151	0.0046	0.1851	1.075	6.724	0.572	0.128	0.183	0.179	4.17	1	6	7	1.764
	300	0.7901	0.0029	0.1817	1.087	6.915	0.517	0.126	0.153	0.151	4.02	1	6	7	1.713
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9381	0.0165	0.2787	1.040	4.267	0.799	0.052	0.475	0.408	5.34	3	7	9	1.883
	200	0.9076	0.0074	0.2662	1.054	5.403	0.720	0.069	0.363	0.322	5.09	3	6	9	1.820
	300	0.8866	0.0048	0.2663	1.064	5.768	0.667	0.069	0.328	0.286	4.97	2.5	6	8	1.771
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9113	0.0146	0.2560	1.048	4.854	0.738	0.073	0.396	0.365	5.04	3	6	8	1.845
	200	0.8756	0.0065	0.2415	1.064	6.037	0.649	0.082	0.283	0.259	4.77	2	6	9	1.768
	300	0.8533	0.0041	0.2358	1.073	6.282	0.606	0.089	0.248	0.234	4.61	2	6	8	1.722
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8376	0.0111	0.2130	1.075	6.324	0.585	0.097	0.232	0.227	4.42	1	6	7	1.726
	200	0.7810	0.0046	0.1912	1.094	7.699	0.492	0.115	0.151	0.148	4.03	1	6	7	1.626
	300	0.7518	0.0029	0.1879	1.109	7.905	0.429	0.107	0.126	0.124	3.87	1	6	7	1.557
Penalised regression methods															
Lasso	100	0.9294	0.1138	0.6834	1.128	7.462	0.769	0.004	0.073	0.000	14.64	5	28	43	-
	200	0.8911	0.0738	0.7339	1.159	9.206	0.658	0.000	0.041	0.000	18.03	5	37.5	63	-
	300	0.8619	0.0568	0.7558	1.181	9.707	0.574	0.000	0.038	0.000	20.26	5	45	71	-
Adaptive Lasso	100	0.7928	0.0196	0.2621	1.112	7.577	0.495	0.121	0.002	0.000	5.05	1	11	32	-
	200	0.7509	0.0173	0.3605	1.139	8.978	0.430	0.059	0.002	0.000	6.40	1	16	49	-
	300	0.7123	0.0158	0.4179	1.165	9.513	0.356	0.029	0.002	0.000	7.51	1	21	57	-
Sica	100	0.6100	0.0097	0.2011	1.154	9.882	0.167	0.073	0.000	0.000	3.37	1	7	14	-
	200	0.4981	0.0041	0.1928	1.194	12.079	0.091	0.039	0.000	0.000	2.80	1	6	14	-
	300	0.4400	0.0023	0.1884	1.214	12.498	0.051	0.027	0.000	0.000	2.45	1	6	16	-
Hard thresholding	100	0.7769	0.0056	0.1140	1.085	6.877	0.412	0.304	0.000	0.000	3.65	1	6	14	-
	200	0.7160	0.0036	0.1372	1.116	8.528	0.332	0.220	0.000	0.000	3.57	1	7	15	-
	300	0.6594	0.0025	0.1550	1.142	9.364	0.268	0.165	0.000	0.000	3.37	1	6	16	-
Boosting methods															
$v = 0.1$	100	0.9885	0.3657	0.8968	1.163	6.371	0.954	0.000	0.191	0.000	39.07	30	48	57	-
	200	0.9830	0.3048	0.9380	1.242	9.280	0.933	0.000	0.139	0.000	63.67	57	71	78	-
	300	0.9718	0.2368	0.9472	1.268	10.141	0.892	0.000	0.128	0.000	73.98	67	82	91	-
$v = 1$	100	0.9344	0.1757	0.8034	1.250	9.900	0.749	0.000	0.032	0.000	20.61	12	31	51	-
	200	0.8978	0.2092	0.9132	1.430	16.549	0.639	0.000	0.033	0.000	44.60	28	68	101	-
	300	0.8565	0.2273	0.9489	1.751	>100	0.518	0.000	0.018	0.000	70.71	46	99	130	-

Notes: See notes to Table 46.

Table 77: MC findings for DGPIV(a)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0222	0.3451	1.005	1.964	1.000	0.000	1.000	0.886	6.13	6	7	9	2.004
	200	1.0000	0.0108	0.3439	1.004	2.013	1.000	0.000	0.998	0.893	6.12	6	7	10	2.004
	300	1.0000	0.0072	0.3449	1.006	2.036	1.000	0.000	0.996	0.879	6.13	6	7	10	2.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3393	1.004	1.919	1.000	0.000	0.999	0.939	6.06	6	7	8	2.005
	200	1.0000	0.0105	0.3388	1.004	1.965	1.000	0.000	0.998	0.941	6.06	6	7	9	2.002
	300	1.0000	0.0070	0.3386	1.004	1.960	1.000	0.000	0.994	0.934	6.06	6	7	9	2.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0209	0.3338	1.004	1.868	1.000	0.001	0.993	0.978	6.01	6	6	8	2.002
	200	1.0000	0.0102	0.3338	1.003	1.910	1.000	0.000	0.994	0.981	6.01	6	6	8	2.000
	300	1.0000	0.0068	0.3326	1.003	1.897	1.000	0.001	0.987	0.975	6.00	6	6	7	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3439	1.005	1.938	1.000	0.000	1.000	0.896	6.11	6	7	9	2.001
	200	1.0000	0.0108	0.3431	1.004	1.989	1.000	0.000	0.998	0.901	6.11	6	7	10	2.000
	300	1.0000	0.0072	0.3440	1.005	2.005	1.000	0.000	0.996	0.888	6.12	6	7	10	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3385	1.004	1.896	1.000	0.000	0.999	0.947	6.06	6	7	8	2.000
	200	1.0000	0.0105	0.3382	1.004	1.948	1.000	0.000	0.998	0.947	6.05	6	7	9	2.000
	300	1.0000	0.0069	0.3380	1.004	1.942	1.000	0.000	0.994	0.940	6.05	6	7	9	1.999
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3337	1.004	1.863	1.000	0.001	0.993	0.980	6.01	6	6	8	2.000
	200	1.0000	0.0102	0.3338	1.003	1.910	1.000	0.000	0.994	0.981	6.01	6	6	8	2.000
	300	1.0000	0.0067	0.3325	1.003	1.893	1.000	0.001	0.987	0.976	6.00	6	6	7	2.000
Penalised regression methods															
Lasso	100	1.0000	0.1553	0.7575	1.034	5.749	1.000	0.002	0.100	0.000	18.91	9	30	45	-
	200	0.9999	0.1015	0.8034	1.044	7.280	1.000	0.003	0.091	0.000	23.89	11	40	71	-
	300	0.9999	0.0783	0.8268	1.050	7.921	1.000	0.001	0.076	0.000	27.18	12	47	92	-
Adaptive Lasso	100	0.9988	0.0100	0.1376	1.010	3.246	0.995	0.557	0.001	0.001	4.95	4	8	32	-
	200	0.9991	0.0111	0.2385	1.013	3.447	0.997	0.375	0.003	0.000	6.17	4	11	56	-
	300	0.9985	0.0102	0.2910	1.014	3.466	0.994	0.311	0.005	0.001	7.03	4	14	56	-
Sica	100	0.9563	0.0045	0.0823	1.014	7.095	0.835	0.666	0.000	0.000	4.26	4	6	12	-
	200	0.9423	0.0020	0.0789	1.017	8.295	0.783	0.645	0.000	0.000	4.17	3	5	12	-
	300	0.9401	0.0011	0.0683	1.018	8.138	0.779	0.660	0.000	0.000	4.10	3	5	12	-
Hard thresholding	100	0.9943	0.0013	0.0213	1.003	2.898	0.978	0.911	0.000	0.000	4.10	4	5	16	-
	200	0.9914	0.0006	0.0227	1.003	3.260	0.966	0.901	0.000	0.000	4.09	4	5	10	-
	300	0.9914	0.0003	0.0179	1.003	3.181	0.966	0.917	0.000	0.000	4.06	4	5	12	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3602	0.8944	1.047	5.440	1.000	0.000	0.164	0.000	38.58	30	47	55	-
	200	1.0000	0.3263	0.9408	1.079	8.081	1.000	0.000	0.165	0.000	67.96	60	76	84	-
	300	0.9999	0.2654	0.9514	1.091	8.980	1.000	0.000	0.150	0.000	82.56	75	91	98	-
$v = 1$	100	0.9988	0.1531	0.7735	1.082	9.065	0.995	0.000	0.052	0.000	18.70	12	26	42	-
	200	0.9983	0.1602	0.8825	1.154	15.700	0.993	0.000	0.058	0.000	35.39	25	48	65	-
	300	0.9974	0.1656	0.9220	1.219	20.686	0.990	0.000	0.052	0.000	53.02	38	71	106	-

Notes: See notes to Table 46.

Table 78: MC findings for DGPIV(a)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0222	0.3454	1.003	1.964	1.000	0.000	1.000	0.883	6.13	6	7	9	2.005
	200	1.0000	0.0108	0.3442	1.003	2.016	1.000	0.000	1.000	0.892	6.12	6	7	9	2.001
	300	1.0000	0.0071	0.3437	1.003	2.031	1.000	0.000	1.000	0.896	6.11	6	7	8	2.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0216	0.3400	1.002	1.923	1.000	0.000	1.000	0.933	6.07	6	7	8	2.005
	200	1.0000	0.0105	0.3393	1.003	1.967	1.000	0.000	1.000	0.941	6.06	6	7	8	2.002
	300	1.0000	0.0070	0.3389	1.002	1.978	1.000	0.000	1.000	0.944	6.06	6	7	8	2.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3346	1.002	1.864	1.000	0.000	1.000	0.987	6.01	6	6	7	2.001
	200	1.0000	0.0103	0.3345	1.002	1.886	1.000	0.000	1.000	0.989	6.01	6	6	8	2.002
	300	1.0000	0.0068	0.3348	1.002	1.907	1.000	0.000	1.000	0.985	6.02	6	6	7	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0221	0.3445	1.003	1.944	1.000	0.000	1.000	0.891	6.12	6	7	9	2.000
	200	1.0000	0.0108	0.3435	1.003	1.979	1.000	0.000	1.000	0.899	6.11	6	7	9	1.999
	300	1.0000	0.0071	0.3429	1.003	2.002	1.000	0.000	1.000	0.905	6.10	6	7	8	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0215	0.3395	1.002	1.911	1.000	0.000	1.000	0.939	6.07	6	7	8	2.001
	200	1.0000	0.0105	0.3388	1.003	1.933	1.000	0.000	1.000	0.945	6.06	6	7	8	2.000
	300	1.0000	0.0069	0.3385	1.002	1.959	1.000	0.000	1.000	0.949	6.05	6	7	8	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3345	1.002	1.859	1.000	0.000	1.000	0.988	6.01	6	6	7	2.000
	200	1.0000	0.0103	0.3343	1.002	1.878	1.000	0.000	1.000	0.990	6.01	6	6	8	2.000
	300	1.0000	0.0068	0.3347	1.002	1.904	1.000	0.000	1.000	0.986	6.01	6	6	7	2.000
Penalised regression methods															
Lasso	100	1.0000	0.1564	0.7627	1.019	5.426	1.000	0.001	0.105	0.000	19.01	10	31	47	-
	200	1.0000	0.0996	0.8045	1.025	6.920	1.000	0.000	0.080	0.000	23.53	12	40	58	-
	300	1.0000	0.0770	0.8264	1.029	8.043	1.000	0.001	0.072	0.000	26.79	13	45	69	-
Adaptive Lasso	100	1.0000	0.0059	0.0776	1.004	2.269	1.000	0.730	0.001	0.000	4.57	4	6	28	-
	200	1.0000	0.0076	0.1423	1.005	2.641	1.000	0.574	0.003	0.001	5.49	4	8	43	-
	300	1.0000	0.0078	0.1826	1.007	3.314	1.000	0.499	0.002	0.001	6.30	4	19.5	53	-
Sica	100	0.9720	0.0028	0.0533	1.006	8.990	0.888	0.790	0.000	0.000	4.16	4	5	13	-
	200	0.9673	0.0011	0.0479	1.007	9.860	0.872	0.806	0.000	0.000	4.09	4	5	8	-
	300	0.9683	0.0007	0.0450	1.007	10.011	0.876	0.814	0.000	0.000	4.08	4	5	8	-
Hard thresholding	100	0.9995	0.0007	0.0121	1.001	1.802	0.998	0.953	0.000	0.000	4.07	4	4	8	-
	200	0.9991	0.0003	0.0091	1.001	2.062	0.997	0.964	0.001	0.001	4.05	4	4	9	-
	300	0.9994	0.0001	0.0074	1.001	1.922	0.998	0.969	0.000	0.000	4.04	4	4	9	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3611	0.8948	1.027	5.254	1.000	0.000	0.169	0.000	38.67	31	47	56	-
	200	1.0000	0.3285	0.9412	1.046	7.637	1.000	0.000	0.153	0.000	68.38	60	76	83	-
	300	1.0000	0.2693	0.9521	1.053	9.075	1.000	0.000	0.137	0.000	83.71	76	92	100	-
$v = 1$	100	1.0000	0.1519	0.7729	1.048	9.088	1.000	0.000	0.057	0.000	18.59	12	27	39	-
	200	1.0000	0.1492	0.8750	1.092	15.285	1.000	0.000	0.045	0.000	33.23	24	45	62	-
	300	0.9999	0.1524	0.9161	1.135	22.044	1.000	0.000	0.048	0.000	49.10	37	64	87	-

Notes: See notes to Table 46.

Table 79: MC findings for DGPIV(a)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5924	0.0093	0.2270	1.076	4.578	0.206	0.035	0.071	0.064	3.26	0	6	7	1.354
	200	0.5285	0.0040	0.2142	1.090	5.120	0.145	0.031	0.044	0.039	2.89	0	6	8	1.256
	300	0.4834	0.0024	0.2093	1.097	5.372	0.113	0.033	0.030	0.026	2.65	0	5	7	1.202
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5255	0.0073	0.1911	1.085	4.815	0.153	0.032	0.048	0.046	2.80	0	6	7	1.276
	200	0.4633	0.0031	0.1791	1.096	5.313	0.098	0.025	0.027	0.026	2.45	0	5	7	1.182
	300	0.4185	0.0018	0.1715	1.104	5.556	0.074	0.025	0.015	0.012	2.22	0	5	7	1.143
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3769	0.0042	0.1274	1.106	5.364	0.063	0.021	0.014	0.014	1.91	0	5	6	1.132
	200	0.3256	0.0018	0.1140	1.113	5.783	0.032	0.008	0.005	0.005	1.65	0	5	7	1.075
	300	0.2960	0.0010	0.1062	1.120	5.960	0.028	0.011	0.004	0.003	1.48	0	4	7	1.059
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5558	0.0092	0.2338	1.085	4.855	0.128	0.018	0.046	0.042	3.11	0	6	7	1.206
	200	0.4951	0.0040	0.2201	1.097	5.357	0.080	0.020	0.024	0.021	2.76	0	5	7	1.120
	300	0.4569	0.0024	0.2135	1.103	5.548	0.060	0.016	0.018	0.016	2.54	0	5	7	1.092
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4955	0.0073	0.1972	1.092	5.023	0.090	0.019	0.028	0.028	2.68	0	5	6	1.154
	200	0.4386	0.0030	0.1833	1.102	5.470	0.052	0.012	0.016	0.016	2.35	0	5	7	1.082
	300	0.4008	0.0018	0.1738	1.107	5.658	0.041	0.015	0.010	0.009	2.14	0	5	7	1.070
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3608	0.0042	0.1303	1.110	5.465	0.034	0.012	0.007	0.007	1.85	0	5	6	1.067
	200	0.3148	0.0018	0.1157	1.116	5.843	0.016	0.005	0.004	0.003	1.60	0	4	7	1.030
	300	0.2866	0.0010	0.1075	1.122	6.006	0.014	0.006	0.003	0.003	1.45	0	4	6	1.021
Penalised regression methods															
Lasso	100	0.6698	0.0798	0.6644	1.094	4.957	0.211	0.001	0.013	0.000	10.34	3	23	41	-
	200	0.6088	0.0524	0.7229	1.107	5.546	0.125	0.000	0.009	0.000	12.72	3	30	66	-
	300	0.5795	0.0420	0.7629	1.116	5.798	0.094	0.000	0.005	0.000	14.75	3	34	76	-
Adaptive Lasso	100	0.4664	0.0207	0.3688	1.097	5.269	0.070	0.009	0.000	0.000	3.85	1	10	25	-
	200	0.4289	0.0162	0.4663	1.115	6.024	0.056	0.001	0.001	0.000	4.90	1	14	38	-
	300	0.4155	0.0144	0.5307	1.131	6.486	0.044	0.002	0.000	0.000	5.92	1	17	62	-
Sica	100	0.3474	0.0116	0.3051	1.131	6.705	0.009	0.001	0.000	0.000	2.50	1	6	18	-
	200	0.2855	0.0053	0.3140	1.145	7.441	0.001	0.000	0.000	0.000	2.18	1	6	15	-
	300	0.2678	0.0035	0.3290	1.154	7.725	0.001	0.001	0.000	0.000	2.11	1	5	12	-
Hard thresholding	100	0.4066	0.0106	0.2650	1.119	6.265	0.032	0.014	0.000	0.000	2.64	1	6	16	-
	200	0.3326	0.0061	0.3090	1.144	7.345	0.010	0.002	0.000	0.000	2.53	1	7	24	-
	300	0.2971	0.0042	0.3436	1.159	7.794	0.005	0.003	0.000	0.000	2.43	1	6	20	-
Boosting methods															
$v = 0.1$	100	0.9100	0.3640	0.9038	1.157	5.598	0.681	0.000	0.103	0.000	38.59	29	48	55	-
	200	0.8771	0.3113	0.9454	1.238	7.993	0.588	0.000	0.082	0.000	64.52	57	72	77	-
	300	0.8290	0.2429	0.9557	1.253	8.639	0.464	0.000	0.052	0.000	75.21	68	83	89	-
$v = 1$	100	0.7651	0.1772	0.8363	1.245	8.838	0.299	0.000	0.006	0.000	20.07	12	31	51	-
	200	0.7046	0.2105	0.9313	1.420	14.608	0.217	0.000	0.012	0.000	44.07	26	69	100	-
	300	0.6411	0.2286	0.9617	2.583	>100	0.163	0.000	0.008	0.000	70.22	45	100	135	-

Notes: See notes to Table 46.

Table 80: MC findings for DGPIV(a)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0211	0.3332	1.005	2.075	0.995	0.003	0.916	0.821	6.03	5	7	9	2.001
	200	0.9976	0.0102	0.3286	1.006	2.170	0.991	0.010	0.883	0.787	5.99	5	7	10	1.999
	300	0.9960	0.0067	0.3264	1.006	2.259	0.986	0.009	0.862	0.767	5.96	5	7	9	1.995
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9983	0.0201	0.3221	1.004	2.059	0.993	0.005	0.874	0.827	5.92	5	6	8	1.999
	200	0.9963	0.0096	0.3163	1.005	2.168	0.985	0.014	0.838	0.791	5.87	5	6	9	1.995
	300	0.9940	0.0063	0.3145	1.005	2.357	0.979	0.014	0.815	0.763	5.85	5	7	8	1.991
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9933	0.0183	0.3006	1.004	2.392	0.974	0.023	0.758	0.749	5.73	5	6	8	1.986
	200	0.9898	0.0086	0.2909	1.005	2.519	0.962	0.039	0.706	0.695	5.65	4	6	7	1.984
	300	0.9846	0.0056	0.2871	1.005	2.845	0.948	0.036	0.671	0.663	5.60	4	6	7	1.974
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9958	0.0211	0.3333	1.006	2.476	0.983	0.003	0.904	0.815	6.01	5	7	9	1.985
	200	0.9933	0.0102	0.3293	1.007	2.711	0.974	0.010	0.868	0.780	5.97	5	7	10	1.978
	300	0.9896	0.0067	0.3278	1.007	2.981	0.962	0.009	0.840	0.750	5.93	5	7	9	1.967
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9939	0.0201	0.3229	1.006	2.645	0.976	0.005	0.859	0.814	5.90	5	6	8	1.979
	200	0.9910	0.0096	0.3175	1.006	2.813	0.965	0.014	0.821	0.778	5.85	5	6	9	1.972
	300	0.9871	0.0063	0.3160	1.007	3.104	0.953	0.014	0.792	0.745	5.82	5	6	8	1.961
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9873	0.0183	0.3019	1.006	3.118	0.951	0.022	0.742	0.735	5.71	5	6	7	1.962
	200	0.9803	0.0086	0.2930	1.007	3.538	0.924	0.039	0.677	0.668	5.61	4	6	7	1.945
	300	0.9720	0.0056	0.2900	1.009	3.936	0.900	0.034	0.640	0.633	5.55	4	6	7	1.924
Penalised regression methods															
Lasso	100	0.9906	0.1364	0.7184	1.036	6.406	0.967	0.004	0.085	0.002	17.05	7	29	43	-
	200	0.9809	0.0841	0.7532	1.047	7.944	0.931	0.002	0.074	0.000	20.42	7	37	53	-
	300	0.9694	0.0618	0.7655	1.054	8.670	0.893	0.001	0.061	0.000	22.17	7	43	79	-
Adaptive Lasso	100	0.9353	0.0174	0.2225	1.025	5.974	0.803	0.292	0.004	0.001	5.41	3	10	20	-
	200	0.9185	0.0152	0.3222	1.031	6.770	0.766	0.161	0.004	0.000	6.65	2	14	46	-
	300	0.9009	0.0127	0.3606	1.037	7.281	0.724	0.121	0.003	0.001	7.36	2	17	52	-
Sica	100	0.7910	0.0081	0.1449	1.035	8.102	0.393	0.199	0.000	0.000	3.94	1	7	14	-
	200	0.7110	0.0033	0.1330	1.048	10.170	0.280	0.150	0.000	0.000	3.50	1	6	14	-
	300	0.6610	0.0020	0.1232	1.056	10.985	0.225	0.130	0.000	0.000	3.22	1	6	15	-
Hard thresholding	100	0.9105	0.0033	0.0638	1.014	4.919	0.701	0.575	0.000	0.000	3.96	3	5	9	-
	200	0.8810	0.0017	0.0656	1.019	5.946	0.635	0.521	0.000	0.000	3.85	2	5	9	-
	300	0.8544	0.0009	0.0574	1.023	6.296	0.559	0.469	0.000	0.000	3.69	2	5	11	-
Boosting methods															
$v = 0.1$	100	0.9980	0.3604	0.8947	1.047	5.396	0.992	0.000	0.159	0.000	38.59	31	47	56	-
	200	0.9973	0.3327	0.9420	1.080	8.013	0.989	0.000	0.171	0.000	69.19	60	77	85	-
	300	0.9971	0.2740	0.9530	1.096	8.938	0.989	0.000	0.134	0.000	85.10	77	93	101	-
$v = 1$	100	0.9791	0.1528	0.7769	1.081	8.889	0.918	0.000	0.031	0.000	18.59	12	26	35	-
	200	0.9745	0.1572	0.8831	1.151	15.159	0.900	0.000	0.030	0.000	34.70	24.5	47	67	-
	300	0.9688	0.1657	0.9242	1.222	20.275	0.877	0.000	0.021	0.000	52.92	38	71	101	-

Notes: See notes to Table 46.

Table 81: MC findings for DGPIV(a)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0220	0.3432	1.003	1.968	1.000	0.000	0.997	0.895	6.11	6	7	8	2.004
	200	1.0000	0.0108	0.3439	1.003	1.975	1.000	0.000	0.999	0.895	6.11	6	7	8	2.004
	300	1.0000	0.0071	0.3436	1.003	2.011	1.000	0.000	0.997	0.890	6.11	6	7	9	2.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3379	1.002	1.902	1.000	0.000	0.996	0.944	6.05	6	7	8	2.003
	200	1.0000	0.0105	0.3382	1.002	1.897	1.000	0.000	0.998	0.946	6.05	6	7	8	2.003
	300	1.0000	0.0069	0.3378	1.003	1.923	1.000	0.000	0.994	0.940	6.05	6	7	8	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0208	0.3329	1.002	1.832	1.000	0.000	0.989	0.977	6.00	6	6	7	2.000
	200	0.9999	0.0102	0.3332	1.002	1.835	1.000	0.000	0.990	0.978	6.00	6	6	8	2.001
	300	1.0000	0.0067	0.3314	1.002	1.852	1.000	0.002	0.981	0.972	5.99	6	6	7	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3427	1.003	1.952	1.000	0.000	0.997	0.901	6.10	6	7	8	2.000
	200	1.0000	0.0108	0.3432	1.003	1.952	1.000	0.000	0.999	0.902	6.11	6	7	8	2.000
	300	1.0000	0.0071	0.3431	1.003	1.991	1.000	0.000	0.997	0.895	6.10	6	7	9	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3375	1.002	1.890	1.000	0.000	0.996	0.947	6.05	6	6	8	2.000
	200	1.0000	0.0104	0.3377	1.002	1.882	1.000	0.000	0.998	0.951	6.05	6	6	8	2.000
	300	1.0000	0.0069	0.3375	1.002	1.912	1.000	0.000	0.994	0.943	6.05	6	7	8	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0208	0.3328	1.002	1.829	1.000	0.000	0.989	0.979	6.00	6	6	7	2.000
	200	0.9999	0.0102	0.3332	1.002	1.834	1.000	0.000	0.990	0.978	6.00	6	6	8	2.000
	300	1.0000	0.0067	0.3313	1.002	1.850	1.000	0.002	0.981	0.973	5.99	6	6	7	2.000
Penalised regression methods															
Lasso	100	0.9998	0.1559	0.7568	1.021	5.580	0.999	0.002	0.101	0.000	18.97	9	31	48	-
	200	0.9998	0.0976	0.7945	1.025	7.012	0.999	0.003	0.099	0.000	23.12	10	39	65	-
	300	0.9996	0.0730	0.8112	1.030	7.988	0.999	0.001	0.079	0.000	25.61	11	44	66	-
Adaptive Lasso	100	0.9951	0.0132	0.1738	1.008	3.719	0.982	0.481	0.003	0.001	5.25	4	9	22	-
	200	0.9915	0.0123	0.2717	1.009	4.103	0.967	0.304	0.005	0.000	6.37	4	12	39	-
	300	0.9931	0.0108	0.3261	1.011	4.390	0.975	0.254	0.007	0.000	7.17	4	15	50	-
Sica	100	0.9248	0.0060	0.1051	1.012	6.900	0.729	0.525	0.000	0.000	4.28	3	6	13	-
	200	0.9088	0.0026	0.0940	1.014	7.664	0.683	0.510	0.000	0.000	4.14	3	6	13	-
	300	0.8918	0.0014	0.0837	1.016	8.441	0.632	0.488	0.000	0.000	3.99	3	6	12	-
Hard thresholding	100	0.9801	0.0019	0.0356	1.003	3.734	0.927	0.836	0.000	0.000	4.11	4	5	12	-
	200	0.9765	0.0009	0.0339	1.004	3.763	0.910	0.825	0.000	0.000	4.08	4	5	12	-
	300	0.9756	0.0004	0.0270	1.004	3.704	0.904	0.840	0.000	0.000	4.04	3	5	10	-
Boosting methods															
$v = 0.1$	100	1.0000	0.3605	0.8946	1.028	5.223	1.000	0.000	0.179	0.000	38.61	30	47	55	-
	200	1.0000	0.3337	0.9420	1.046	7.571	1.000	0.000	0.162	0.000	69.41	60	78	84	-
	300	1.0000	0.2793	0.9537	1.055	8.870	1.000	0.000	0.149	0.000	86.68	79	94	104	-
$v = 1$	100	0.9963	0.1497	0.7708	1.049	8.861	0.985	0.000	0.045	0.000	18.35	12	26	37	-
	200	0.9951	0.1479	0.8745	1.091	14.663	0.981	0.000	0.039	0.000	32.96	23	44	55	-
	300	0.9943	0.1519	0.9163	1.133	20.791	0.978	0.000	0.032	0.000	48.93	36.5	64	87	-

Notes: See notes to Table 46.

Table 82: MC findings for DGPIV(b)

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9684	0.0073	0.1337	1.024	2.853	0.878	0.394	4.57	4	6	9	1.891
	200	0.9529	0.0034	0.1309	1.032	3.281	0.821	0.378	4.48	3	6	8	1.840
	300	0.9418	0.0021	0.1240	1.037	3.574	0.781	0.377	4.39	3	6	8	1.792
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9584	0.0056	0.1072	1.027	3.113	0.843	0.458	4.37	3	6	9	1.855
	200	0.9366	0.0026	0.1055	1.037	3.697	0.766	0.433	4.26	3	5	8	1.778
	300	0.9299	0.0016	0.0965	1.040	3.844	0.743	0.436	4.19	3	5	7	1.750
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9258	0.0033	0.0671	1.039	3.987	0.733	0.516	4.02	3	5	6	1.743
	200	0.9046	0.0015	0.0641	1.048	4.450	0.670	0.486	3.92	3	5	7	1.677
	300	0.8920	0.0009	0.0570	1.054	4.685	0.623	0.460	3.83	3	5	6	1.629
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9338	0.0071	0.1351	1.041	3.844	0.742	0.344	4.41	3	6	9	1.744
	200	0.9126	0.0033	0.1322	1.052	4.284	0.665	0.312	4.30	3	6	8	1.669
	300	0.8953	0.0021	0.1264	1.060	4.641	0.597	0.300	4.19	3	6	8	1.600
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9211	0.0055	0.1086	1.045	4.086	0.697	0.387	4.21	3	5	9	1.701
	200	0.8968	0.0026	0.1071	1.057	4.592	0.611	0.348	4.09	3	5	8	1.613
	300	0.8804	0.0016	0.0993	1.065	4.900	0.547	0.327	3.99	3	5	7	1.551
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8844	0.0033	0.0688	1.060	4.845	0.573	0.406	3.85	3	5	6	1.576
	200	0.8616	0.0015	0.0659	1.070	5.220	0.502	0.361	3.74	3	5	6	1.504
	300	0.8448	0.0009	0.0590	1.078	5.482	0.437	0.320	3.64	3	5	6	1.439
Penalised regression methods													
Lasso	100	0.9693	0.0971	0.6241	1.102	5.580	0.885	0.012	13.20	4	25	42	-
	200	0.9553	0.0668	0.6927	1.125	6.279	0.832	0.004	16.92	5	36	67	-
	300	0.9411	0.0519	0.7270	1.140	6.844	0.778	0.001	19.14	5	40	72	-
Adaptive Lasso	100	0.8715	0.0097	0.1217	1.096	7.184	0.645	0.335	4.42	2	8	35	-
	200	0.8618	0.0107	0.1957	1.108	7.375	0.609	0.212	5.54	2	13	50	-
	300	0.8494	0.0104	0.2503	1.119	7.733	0.583	0.156	6.48	2	22	55	-
Sica	100	0.7209	0.0051	0.0904	1.138	11.188	0.453	0.287	3.38	1	6	13	-
	200	0.6583	0.0026	0.0949	1.168	12.477	0.347	0.202	3.15	1	6	18	-
	300	0.5961	0.0015	0.0900	1.188	13.735	0.259	0.153	2.83	1	6	13	-
Hard thresholding	100	0.8179	0.0017	0.0308	1.083	8.545	0.638	0.542	3.44	1	5	10	-
	200	0.7926	0.0011	0.0368	1.098	9.189	0.599	0.491	3.39	1	5	12	-
	300	0.7773	0.0008	0.0378	1.102	9.435	0.565	0.469	3.34	1	5	17	-
Boosting methods													
$v = 0.1$	100	0.9994	0.3833	0.9000	1.156	6.090	0.998	0.000	40.79	31	49	54	-
	200	0.9990	0.3023	0.9365	1.219	7.688	0.996	0.000	63.24	56	70	77	-
	300	0.9970	0.2335	0.9452	1.238	8.441	0.988	0.000	73.10	66	80	90	-
$v = 1$	100	0.9920	0.2203	0.8256	1.275	11.853	0.972	0.000	25.11	14	40	62	-
	200	0.9729	0.2521	0.9209	1.596	>100	0.908	0.000	53.31	32	81	108	-
	300	0.9466	0.2581	0.9504	3.039	>100	0.817	0.000	80.19	53	109	144	-

Notes: See notes to Table 55.

Table 83: MC findings for DGPIV(b)

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0151	0.2562	1.004	1.441	1.000	0.012	5.45	5	7	9	2.004
	200	1.0000	0.0070	0.2476	1.004	1.433	1.000	0.010	5.38	5	7	10	2.005
	300	1.0000	0.0046	0.2445	1.003	1.401	1.000	0.013	5.36	5	6	8	2.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0137	0.2389	1.003	1.385	1.000	0.019	5.31	5	6	9	2.002
	200	1.0000	0.0064	0.2325	1.003	1.371	1.000	0.018	5.26	5	6	9	2.003
	300	1.0000	0.0042	0.2286	1.002	1.324	1.000	0.019	5.23	5	6	8	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0116	0.2125	1.002	1.297	1.000	0.041	5.12	5	6	7	2.002
	200	1.0000	0.0055	0.2071	1.002	1.269	1.000	0.047	5.08	5	6	8	2.002
	300	1.0000	0.0036	0.2033	1.002	1.234	1.000	0.053	5.05	4	6	7	2.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0150	0.2546	1.003	1.403	1.000	0.012	5.44	5	7	9	1.998
	200	1.0000	0.0070	0.2461	1.003	1.395	1.000	0.010	5.37	5	6.5	10	2.001
	300	1.0000	0.0045	0.2433	1.003	1.370	1.000	0.013	5.35	5	6	8	1.999
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0136	0.2380	1.003	1.363	1.000	0.020	5.31	5	6	9	1.999
	200	1.0000	0.0064	0.2315	1.003	1.342	1.000	0.018	5.25	5	6	9	2.001
	300	1.0000	0.0041	0.2280	1.002	1.306	1.000	0.019	5.23	5	6	8	1.999
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0116	0.2119	1.002	1.283	1.000	0.041	5.11	5	6	7	2.000
	200	0.9999	0.0055	0.2068	1.002	1.315	1.000	0.047	5.08	5	6	8	2.001
	300	1.0000	0.0036	0.2033	1.002	1.234	1.000	0.053	5.05	4	6	7	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1179	0.6928	1.026	4.321	1.000	0.004	15.32	7	27	51	-
	200	1.0000	0.0782	0.7460	1.036	5.192	1.000	0.004	19.32	8	34	62	-
	300	1.0000	0.0591	0.7693	1.040	5.748	1.000	0.002	21.50	9	40	77	-
Adaptive Lasso	100	0.9999	0.0082	0.0648	1.011	3.405	1.000	0.843	4.79	4	10	30	-
	200	0.9993	0.0103	0.1255	1.017	3.958	0.997	0.733	6.01	4	20	42	-
	300	0.9996	0.0113	0.1762	1.022	4.443	0.999	0.692	7.34	4	25	54	-
Sica	100	0.9873	0.0019	0.0306	1.008	5.943	0.973	0.854	4.13	4	5	11	-
	200	0.9814	0.0007	0.0238	1.010	7.151	0.962	0.858	4.05	4	5	9	-
	300	0.9806	0.0005	0.0241	1.010	6.974	0.960	0.860	4.06	4	5	12	-
Hard thresholding	100	0.9891	0.0005	0.0075	1.005	5.607	0.979	0.950	4.00	4	4	9	-
	200	0.9874	0.0002	0.0071	1.006	5.843	0.975	0.946	3.99	4	4	8	-
	300	0.9898	0.0001	0.0063	1.005	5.510	0.980	0.955	4.00	4	4	12	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3803	0.8993	1.045	5.317	1.000	0.000	40.51	31	49	57	-
	200	1.0000	0.3327	0.9420	1.076	7.374	1.000	0.000	69.21	62	76	83	-
	300	1.0000	0.2669	0.9517	1.085	8.119	1.000	0.000	83.00	75	91	100	-
$v = 1$	100	1.0000	0.1907	0.8075	1.085	10.162	1.000	0.000	22.31	14	33	51	-
	200	1.0000	0.1958	0.9002	1.164	17.529	1.000	0.000	42.37	28	61	88	-
	300	1.0000	0.2084	0.9360	1.235	24.711	1.000	0.000	65.69	44	93	125	-

Notes: See notes to Table 55.

Table 84: MC findings for DGPIV(b)

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0186	0.2997	1.002	1.455	1.000	0.000	5.79	5	7	9	2.006
	200	1.0000	0.0088	0.2915	1.002	1.515	1.000	0.000	5.72	5	7	9	2.005
	300	1.0000	0.0057	0.2858	1.002	1.496	1.000	0.000	5.68	5	7	9	2.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0169	0.2807	1.002	1.387	1.000	0.000	5.62	5	7	8	2.003
	200	1.0000	0.0080	0.2741	1.002	1.436	1.000	0.000	5.57	5	7	8	2.002
	300	1.0000	0.0052	0.2693	1.002	1.431	1.000	0.000	5.54	5	7	8	2.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0145	0.2514	1.002	1.319	1.000	0.002	5.39	5	6	7	2.001
	200	1.0000	0.0069	0.2459	1.002	1.342	1.000	0.001	5.35	5	6	7	2.001
	300	1.0000	0.0045	0.2429	1.001	1.353	1.000	0.001	5.33	5	6	7	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0185	0.2984	1.002	1.424	1.000	0.000	5.78	5	7	9	1.999
	200	1.0000	0.0087	0.2900	1.002	1.473	1.000	0.000	5.71	5	7	9	2.000
	300	1.0000	0.0056	0.2848	1.002	1.471	1.000	0.000	5.67	5	7	9	2.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0169	0.2801	1.002	1.371	1.000	0.000	5.62	5	7	8	2.000
	200	1.0000	0.0080	0.2736	1.002	1.417	1.000	0.000	5.57	5	7	8	2.000
	300	1.0000	0.0052	0.2688	1.002	1.418	1.000	0.000	5.53	5	7	8	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0145	0.2511	1.002	1.308	1.000	0.002	5.39	5	6	7	2.000
	200	1.0000	0.0069	0.2458	1.001	1.336	1.000	0.001	5.35	5	6	7	2.000
	300	1.0000	0.0045	0.2428	1.001	1.350	1.000	0.001	5.33	5	6	7	2.000
Penalised regression methods													
Lasso	100	1.0000	0.1219	0.6858	1.016	4.147	1.000	0.005	15.70	7	27	48	-
	200	1.0000	0.0749	0.7373	1.021	5.157	1.000	0.006	18.69	8	39	56	-
	300	1.0000	0.0579	0.7622	1.023	5.546	1.000	0.002	21.13	8	37	69	-
Adaptive Lasso	100	1.0000	0.0101	0.0755	1.006	2.626	1.000	0.874	4.97	4	13	25	-
	200	1.0000	0.0131	0.1612	1.010	3.351	1.000	0.762	6.56	4	19	38	-
	300	1.0000	0.0142	0.2425	1.014	3.838	1.000	0.660	8.20	4	22	46	-
Sica	100	0.9995	0.0010	0.0167	1.001	2.306	0.999	0.929	4.09	4	5	9	-
	200	0.9991	0.0004	0.0143	1.001	2.853	0.998	0.936	4.07	4	5	8	-
	300	0.9993	0.0003	0.0134	1.001	2.659	0.999	0.941	4.07	4	5	9	-
Hard thresholding	100	0.9985	0.0005	0.0077	1.001	3.425	0.997	0.969	4.04	4	4	16	-
	200	0.9988	0.0001	0.0037	1.001	3.280	0.998	0.981	4.01	4	4	7	-
	300	0.9985	0.0001	0.0039	1.001	3.467	0.997	0.979	4.01	4	4	6	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3802	0.8993	1.027	4.984	1.000	0.000	40.50	31	49	58	-
	200	1.0000	0.3382	0.9428	1.044	7.363	1.000	0.000	70.30	62	78	87	-
	300	1.0000	0.2730	0.9527	1.050	7.975	1.000	0.000	84.81	77	93	101	-
$v = 1$	100	1.0000	0.1863	0.8043	1.050	9.486	1.000	0.000	21.88	14	32	50	-
	200	1.0000	0.1840	0.8953	1.096	17.377	1.000	0.000	40.06	27	56	81	-
	300	1.0000	0.1891	0.9306	1.141	24.146	1.000	0.000	59.98	43	81	107	-

Notes: See notes to Table 55.

Table 85: MC findings for DGPIV(b)

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7978	0.0052	0.1126	1.049	3.065	0.278	0.175	3.69	2	5	7	1.300
	200	0.7760	0.0022	0.0986	1.054	3.335	0.216	0.146	3.53	2	5	8	1.235
	300	0.7566	0.0014	0.0967	1.058	3.470	0.181	0.127	3.44	2	5	7	1.191
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7753	0.0036	0.0822	1.050	3.134	0.221	0.164	3.45	2	5	7	1.238
	200	0.7545	0.0015	0.0712	1.054	3.365	0.177	0.135	3.32	2	5	8	1.187
	300	0.7374	0.0009	0.0679	1.058	3.510	0.144	0.119	3.23	2	4	7	1.152
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7273	0.0018	0.0446	1.053	3.342	0.133	0.116	3.08	2	4	6	1.141
	200	0.7024	0.0007	0.0355	1.058	3.608	0.094	0.082	2.95	2	4	6	1.098
	300	0.6873	0.0004	0.0343	1.061	3.764	0.077	0.068	2.88	2	4	7	1.080
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7664	0.0050	0.1118	1.055	3.199	0.157	0.101	3.55	2	5	7	1.161
	200	0.7454	0.0021	0.0975	1.060	3.449	0.099	0.064	3.40	2	5	7	1.101
	300	0.7295	0.0014	0.0974	1.063	3.601	0.077	0.053	3.33	2	5	7	1.079
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7491	0.0035	0.0822	1.054	3.235	0.123	0.095	3.33	2	5	6	1.127
	200	0.7286	0.0015	0.0706	1.059	3.460	0.077	0.054	3.21	2	5	7	1.078
	300	0.7158	0.0009	0.0681	1.061	3.600	0.062	0.049	3.14	2	4	7	1.063
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7095	0.0018	0.0448	1.056	3.415	0.066	0.060	3.01	2	4	5	1.068
	200	0.6885	0.0007	0.0355	1.060	3.658	0.041	0.035	2.89	2	4	6	1.041
	300	0.6749	0.0004	0.0344	1.063	3.813	0.030	0.025	2.83	2	4	6	1.030
Penalised regression methods													
Lasso	100	0.8326	0.0713	0.5647	1.083	3.879	0.438	0.005	10.18	3	23	44	-
	200	0.8000	0.0498	0.6428	1.098	4.393	0.342	0.001	12.97	3	31	71	-
	300	0.7779	0.0383	0.6739	1.109	4.691	0.277	0.001	14.46	3	34	60	-
Adaptive Lasso	100	0.6526	0.0104	0.1519	1.084	4.848	0.197	0.045	3.61	1	9	24	-
	200	0.6369	0.0101	0.2309	1.097	5.331	0.175	0.024	4.53	1	13	57	-
	300	0.6248	0.0090	0.2781	1.106	5.602	0.141	0.010	5.17	1	15	49	-
Sica	100	0.4274	0.0049	0.1080	1.127	7.515	0.056	0.024	2.18	1	5	15	-
	200	0.3571	0.0018	0.0916	1.140	8.331	0.017	0.005	1.78	1	4	17	-
	300	0.3334	0.0010	0.0795	1.146	8.635	0.010	0.006	1.62	1	4	16	-
Hard thresholding	100	0.5106	0.0037	0.0684	1.106	6.752	0.138	0.078	2.40	1	5	29	-
	200	0.4470	0.0021	0.0875	1.124	7.597	0.076	0.034	2.21	1	5	18	-
	300	0.4186	0.0014	0.0873	1.131	7.937	0.058	0.027	2.08	1	5	17	-
Boosting methods													
$v = 0.1$	100	0.9821	0.3846	0.9017	1.153	5.507	0.931	0.000	40.85	31	50	56	-
	200	0.9593	0.3082	0.9400	1.221	7.311	0.844	0.000	64.24	58	71	78	-
	300	0.9409	0.2385	0.9492	1.233	7.693	0.775	0.000	74.35	67	82	90	-
$v = 1$	100	0.8959	0.2202	0.8404	1.269	10.592	0.673	0.000	24.72	14	40	62	-
	200	0.8394	0.2545	0.9317	1.513	>100	0.520	0.000	53.25	31	82.5	114	-
	300	0.7914	0.2590	0.9584	1.999	>100	0.394	0.000	79.83	52	111	135	-

Notes: See notes to Table 55.

Table 86: MC findings for DGPIV(b)

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9946	0.0127	0.2237	1.005	1.904	0.979	0.066	5.20	4	6	8	1.984
	200	0.9904	0.0059	0.2162	1.005	2.212	0.962	0.086	5.12	4	6	8	1.963
	300	0.9874	0.0038	0.2090	1.006	2.315	0.950	0.106	5.06	4	6	9	1.953
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9934	0.0113	0.2044	1.004	1.936	0.974	0.104	5.05	4	6	8	1.975
	200	0.9865	0.0053	0.1978	1.005	2.372	0.946	0.119	4.98	4	6	8	1.946
	300	0.9829	0.0033	0.1903	1.006	2.526	0.932	0.142	4.92	4	6	8	1.934
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9838	0.0090	0.1716	1.005	2.488	0.935	0.190	4.80	4	6	7	1.936
	200	0.9761	0.0042	0.1629	1.007	2.869	0.905	0.217	4.72	4	5	7	1.906
	300	0.9674	0.0027	0.1615	1.009	3.196	0.870	0.224	4.67	4	5	7	1.870
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9834	0.0126	0.2246	1.007	2.620	0.934	0.064	5.14	4	6	8	1.933
	200	0.9724	0.0059	0.2190	1.009	3.191	0.890	0.078	5.04	4	6	8	1.889
	300	0.9606	0.0037	0.2132	1.012	3.563	0.843	0.097	4.95	4	6	9	1.843
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9790	0.0112	0.2065	1.007	2.829	0.916	0.101	4.99	4	6	8	1.915
	200	0.9650	0.0053	0.2016	1.010	3.445	0.860	0.108	4.89	4	6	8	1.860
	300	0.9530	0.0033	0.1952	1.013	3.818	0.812	0.128	4.79	4	6	8	1.812
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9634	0.0090	0.1748	1.010	3.545	0.854	0.174	4.72	4	6	7	1.854
	200	0.9445	0.0042	0.1679	1.014	4.162	0.778	0.196	4.59	4	5	7	1.778
	300	0.9344	0.0027	0.1664	1.016	4.357	0.738	0.191	4.54	3	5	7	1.738
Penalised regression methods													
Lasso	100	0.9980	0.1094	0.6609	1.028	4.648	0.992	0.015	14.50	6	26	53	-
	200	0.9943	0.0696	0.7111	1.036	5.477	0.977	0.008	17.62	6	33	68	-
	300	0.9883	0.0521	0.7271	1.042	5.868	0.954	0.008	19.38	6	38	80	-
Adaptive Lasso	100	0.9614	0.0081	0.1058	1.021	5.679	0.877	0.539	4.62	3	7	27	-
	200	0.9543	0.0077	0.1643	1.025	5.994	0.856	0.416	5.33	3	10	44	-
	300	0.9409	0.0072	0.1992	1.029	6.241	0.817	0.331	5.90	2	12	63	-
Sica	100	0.8668	0.0040	0.0644	1.029	9.091	0.719	0.505	3.85	2	6	13	-
	200	0.8154	0.0016	0.0555	1.038	10.466	0.613	0.445	3.57	2	6	11	-
	300	0.7876	0.0011	0.0581	1.044	10.936	0.572	0.409	3.47	1	6	16	-
Hard thresholding	100	0.9176	0.0009	0.0153	1.016	7.121	0.834	0.773	3.76	2	5	8	-
	200	0.9004	0.0004	0.0144	1.019	7.646	0.799	0.741	3.68	2	5	9	-
	300	0.8858	0.0003	0.0140	1.021	7.782	0.769	0.712	3.62	2	5	14	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3842	0.9002	1.048	5.354	1.000	0.000	40.89	32	51	57	-
	200	1.0000	0.3389	0.9429	1.077	7.551	1.000	0.000	70.43	62	78	84	-
	300	1.0000	0.2733	0.9527	1.086	8.026	1.000	0.000	84.90	77	93	102	-
$v = 1$	100	1.0000	0.1928	0.8097	1.089	10.296	1.000	0.000	22.51	14	33	53	-
	200	0.9998	0.1947	0.8999	1.163	17.474	0.999	0.000	42.17	28	60	91	-
	300	0.9991	0.2059	0.9352	1.230	23.671	0.997	0.000	64.94	44	91	138	-

Notes: See notes to Table 55.

Table 87: MC findings for DGPIV(b)

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0161	0.2685	1.002	1.491	1.000	0.002	5.54	5	7	10	2.003
	200	1.0000	0.0075	0.2595	1.002	1.452	1.000	0.004	5.47	5	7	9	2.001
	300	0.9998	0.0049	0.2551	1.002	1.513	0.999	0.007	5.44	5	7	10	2.001
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0145	0.2504	1.002	1.418	1.000	0.004	5.39	5	6	9	2.005
	200	1.0000	0.0068	0.2424	1.002	1.375	1.000	0.006	5.33	5	6	9	2.001
	300	0.9998	0.0044	0.2388	1.002	1.444	0.999	0.012	5.31	5	6	9	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0124	0.2244	1.001	1.315	1.000	0.014	5.19	5	6	8	2.001
	200	0.9996	0.0059	0.2205	1.001	1.371	0.999	0.013	5.16	5	6	7	1.999
	300	0.9991	0.0038	0.2160	1.001	1.491	0.997	0.027	5.13	5	6	7	1.997
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0160	0.2675	1.002	1.462	1.000	0.002	5.53	5	7	9	2.000
	200	0.9996	0.0075	0.2587	1.002	1.517	0.999	0.004	5.46	5	7	9	1.999
	300	0.9989	0.0048	0.2548	1.003	1.702	0.996	0.007	5.43	5	7	10	1.996
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0144	0.2495	1.002	1.420	1.000	0.004	5.39	5	6	9	2.000
	200	0.9996	0.0068	0.2420	1.002	1.449	0.999	0.006	5.32	5	6	9	1.999
	300	0.9984	0.0044	0.2387	1.002	1.732	0.994	0.012	5.30	5	6	9	1.994
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0124	0.2245	1.001	1.469	0.998	0.014	5.19	5	6	8	1.998
	200	0.9981	0.0059	0.2208	1.002	1.693	0.993	0.013	5.15	5	6	7	1.993
	300	0.9975	0.0038	0.2163	1.002	1.831	0.990	0.027	5.12	5	6	7	1.990
					Penalised regression methods								
Lasso	100	1.0000	0.1195	0.6945	1.015	4.144	1.000	0.003	15.47	7	26.5	43	-
	200	1.0000	0.0754	0.7360	1.021	4.961	1.000	0.005	18.77	7	34	53	-
	300	0.9999	0.0571	0.7584	1.023	5.472	1.000	0.002	20.91	8	38	71	-
Adaptive Lasso	100	0.9973	0.0057	0.0630	1.008	3.918	0.990	0.782	4.54	4	6	32	-
	200	0.9956	0.0075	0.1218	1.010	4.386	0.984	0.651	5.46	4	17	38	-
	300	0.9963	0.0082	0.1590	1.012	4.712	0.987	0.606	6.41	4	22.5	50	-
Sica	100	0.9620	0.0028	0.0442	1.009	7.318	0.922	0.756	4.11	2	6	15	-
	200	0.9514	0.0010	0.0340	1.011	8.035	0.895	0.759	4.00	2	5	11	-
	300	0.9493	0.0006	0.0316	1.011	8.446	0.894	0.766	3.97	2	5	9	-
Hard thresholding	100	0.9736	0.0006	0.0100	1.005	5.910	0.946	0.908	3.95	2	4	9	-
	200	0.9726	0.0002	0.0078	1.005	6.141	0.944	0.911	3.93	2	4	7	-
	300	0.9739	0.0001	0.0054	1.005	6.038	0.948	0.925	3.93	3	4	8	-
					Boosting methods								
$v = 0.1$	100	1.0000	0.3807	0.8994	1.026	4.998	1.000	0.000	40.55	32	49.5	59	-
	200	1.0000	0.3441	0.9437	1.045	7.160	1.000	0.000	71.45	63	79	86	-
	300	1.0000	0.2804	0.9539	1.052	7.993	1.000	0.000	87.00	79	95	106	-
$v = 1$	100	1.0000	0.1867	0.8041	1.050	9.569	1.000	0.000	21.93	13	32	49	-
	200	1.0000	0.1833	0.8950	1.096	16.811	1.000	0.000	39.93	27	55	77	-
	300	1.0000	0.1893	0.9308	1.142	23.919	1.000	0.000	60.03	43	81	100	-

Notes: See notes to Table 55.

Table 88: MC findings for DGPIV(b)

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6044	0.0031	0.0856	1.038	2.350	0.026	0.018	2.72	1	4	6	1.041
	200	0.5651	0.0014	0.0788	1.039	2.499	0.014	0.012	2.53	1	4	6	1.026
	300	0.5533	0.0009	0.0807	1.044	2.685	0.006	0.004	2.48	1	4	6	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5654	0.0019	0.0542	1.038	2.377	0.014	0.014	2.44	1	4	6	1.021
	200	0.5294	0.0008	0.0500	1.041	2.545	0.010	0.008	2.28	1	4	6	1.019
	300	0.5150	0.0005	0.0508	1.045	2.734	0.005	0.004	2.21	1	4	6	1.010
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4730	0.0006	0.0210	1.046	2.661	0.005	0.005	1.95	0	3	4	1.009
	200	0.4394	0.0003	0.0201	1.050	2.844	0.004	0.004	1.82	0	3	5	1.007
	300	0.4294	0.0002	0.0214	1.055	3.009	0.001	0.001	1.77	0	3	4	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5984	0.0031	0.0846	1.037	2.335	0.009	0.007	2.69	1	4	6	1.012
	200	0.5618	0.0013	0.0780	1.038	2.490	0.005	0.004	2.51	1	4	6	1.008
	300	0.5515	0.0009	0.0792	1.043	2.663	0.001	0.001	2.46	1	4	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5619	0.0018	0.0539	1.038	2.373	0.005	0.005	2.43	1	4	6	1.006
	200	0.5268	0.0008	0.0495	1.040	2.536	0.004	0.004	2.27	1	4	6	1.006
	300	0.5136	0.0005	0.0498	1.044	2.715	0.001	0.001	2.20	1	4	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4719	0.0006	0.0204	1.046	2.655	0.001	0.001	1.95	0	3	4	1.002
	200	0.4383	0.0003	0.0199	1.050	2.841	0.001	0.001	1.81	0	3	5	1.002
	300	0.4294	0.0002	0.0209	1.055	3.004	0.001	0.001	1.77	0	3	4	1.001
Penalised regression methods													
Lasso	100	0.6601	0.0598	0.5647	1.057	2.490	0.112	0.000	8.39	2	19	42	-
	200	0.6230	0.0414	0.6522	1.064	2.686	0.065	0.000	10.62	2	25	51	-
	300	0.6129	0.0351	0.6945	1.072	2.946	0.044	0.000	12.83	3	31	72	-
Adaptive Lasso	100	0.4645	0.0129	0.2311	1.058	3.039	0.029	0.002	3.10	1	8	25	-
	200	0.4585	0.0108	0.3249	1.066	3.358	0.026	0.001	3.96	1	12	43	-
	300	0.4569	0.0111	0.4023	1.081	3.919	0.014	0.001	5.10	1	16	57	-
Sica	100	0.2999	0.0060	0.1627	1.083	4.543	0.001	0.000	1.77	1	5	12	-
	200	0.2733	0.0023	0.1443	1.085	4.619	0.000	0.000	1.54	1	4	11	-
	300	0.2634	0.0016	0.1532	1.089	4.919	0.000	0.000	1.51	1	4	8	-
Hard thresholding	100	0.3135	0.0053	0.1443	1.079	4.410	0.002	0.000	1.77	1	4	21	-
	200	0.2878	0.0026	0.1536	1.085	4.627	0.001	0.000	1.66	1	4	20	-
	300	0.2761	0.0021	0.1820	1.095	5.158	0.000	0.000	1.72	1	4	15	-
Boosting methods													
$v = 0.1$	100	0.8968	0.3820	0.9090	1.146	5.155	0.642	0.000	40.26	30	50	57	-
	200	0.8459	0.3122	0.9474	1.209	6.575	0.489	0.000	64.58	58	72	79	-
	300	0.8025	0.2421	0.9570	1.218	6.935	0.352	0.000	74.88	68	82	89	-
$v = 1$	100	0.7071	0.2093	0.8658	1.245	9.291	0.242	0.000	22.92	12	38	58	-
	200	0.6654	0.2544	0.9456	1.415	14.947	0.186	0.000	52.53	30	81	124	-
	300	0.6196	0.2582	0.9673	1.574	32.595	0.130	0.000	78.92	51	110	136	-

Notes: See notes to Table 55.

Table 89: MC findings for DGPIV(b)

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8730	0.0090	0.1793	1.015	3.208	0.495	0.158	4.35	3	6	8	1.500
	200	0.8486	0.0038	0.1617	1.018	3.475	0.400	0.160	4.15	3	6	8	1.404
	300	0.8344	0.0023	0.1514	1.019	3.628	0.345	0.138	4.03	3	5	7	1.348
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8548	0.0073	0.1532	1.016	3.298	0.427	0.173	4.12	3	5	7	1.430
	200	0.8331	0.0030	0.1321	1.018	3.532	0.340	0.162	3.92	3	5	7	1.343
	300	0.8219	0.0019	0.1239	1.020	3.641	0.297	0.144	3.84	3	5	7	1.299
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8214	0.0048	0.1061	1.019	3.503	0.301	0.178	3.74	3	5	6	1.303
	200	0.8033	0.0020	0.0911	1.020	3.699	0.237	0.152	3.60	3	5	6	1.238
	300	0.7896	0.0011	0.0803	1.021	3.802	0.192	0.129	3.50	3	5	6	1.194
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8251	0.0089	0.1856	1.020	3.661	0.304	0.103	4.15	3	6	8	1.304
	200	0.8031	0.0038	0.1667	1.022	3.903	0.219	0.088	3.96	3	5	7	1.219
	300	0.7896	0.0023	0.1566	1.024	4.018	0.167	0.071	3.85	3	5	7	1.166
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8119	0.0073	0.1582	1.021	3.690	0.256	0.108	3.95	3	5	7	1.257
	200	0.7934	0.0030	0.1358	1.022	3.886	0.182	0.085	3.76	3	5	7	1.182
	300	0.7809	0.0019	0.1283	1.023	3.988	0.134	0.070	3.67	3	5	7	1.134
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7889	0.0048	0.1090	1.022	3.757	0.172	0.109	3.61	3	5	6	1.172
	200	0.7711	0.0020	0.0930	1.023	3.960	0.109	0.065	3.47	3	5	6	1.109
	300	0.7608	0.0011	0.0821	1.024	4.023	0.077	0.054	3.38	3	4	6	1.078
Penalised regression methods													
Lasso	100	0.9081	0.0804	0.5826	1.029	4.259	0.669	0.015	11.35	3	23	41	-
	200	0.8675	0.0473	0.6201	1.035	4.923	0.528	0.003	12.74	3	28	64	-
	300	0.8489	0.0361	0.6485	1.037	5.161	0.469	0.002	14.09	3	32	73	-
Adaptive Lasso	100	0.7564	0.0088	0.1257	1.029	5.427	0.367	0.148	3.87	2	8	21	-
	200	0.7191	0.0070	0.1763	1.033	5.966	0.287	0.066	4.26	2	10	42	-
	300	0.7184	0.0064	0.2240	1.034	5.987	0.281	0.053	4.76	2	12	34	-
Sica	100	0.5456	0.0047	0.0938	1.044	8.426	0.182	0.078	2.64	1	6	13	-
	200	0.4481	0.0016	0.0666	1.052	9.681	0.076	0.037	2.10	1	5	13	-
	300	0.4154	0.0009	0.0617	1.054	10.031	0.047	0.021	1.92	1	4	12	-
Hard thresholding	100	0.6555	0.0019	0.0356	1.031	6.863	0.347	0.256	2.80	1	5	10	-
	200	0.5878	0.0011	0.0398	1.037	7.918	0.249	0.169	2.56	1	5	13	-
	300	0.5480	0.0006	0.0400	1.041	8.313	0.191	0.132	2.38	1	5	10	-
Boosting methods													
$v = 0.1$	100	0.9978	0.3820	0.8996	1.046	5.150	0.991	0.000	40.66	31	51	59	-
	200	0.9969	0.3433	0.9438	1.077	7.732	0.988	0.000	71.28	63	79	85	-
	300	0.9926	0.2788	0.9539	1.091	8.602	0.971	0.000	86.49	79	95	103	-
$v = 1$	100	0.9815	0.1875	0.8078	1.085	9.810	0.936	0.000	21.93	13	33	48	-
	200	0.9679	0.1944	0.9026	1.160	17.589	0.888	0.000	41.97	28	60	90	-
	300	0.9539	0.2075	0.9386	1.233	24.904	0.839	0.000	65.24	44	93	135	-

Notes: See notes to Table 55.

Table 90: MC findings for DGPIV(b)

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9705	0.0128	0.2307	1.005	2.597	0.882	0.057	5.11	4	6	9	1.884
	200	0.9530	0.0059	0.2225	1.007	3.096	0.812	0.072	4.97	4	6	8	1.814
	300	0.9411	0.0037	0.2170	1.008	3.482	0.765	0.092	4.87	4	6	8	1.766
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9619	0.0113	0.2115	1.005	2.784	0.848	0.085	4.94	4	6	9	1.848
	200	0.9440	0.0052	0.2027	1.007	3.250	0.776	0.109	4.79	4	6	8	1.778
	300	0.9286	0.0033	0.1979	1.009	3.688	0.715	0.121	4.69	4	6	7	1.716
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9374	0.0091	0.1801	1.007	3.346	0.750	0.148	4.62	3	6	7	1.750
	200	0.9200	0.0042	0.1724	1.009	3.724	0.680	0.166	4.50	3	5	7	1.681
	300	0.9001	0.0026	0.1659	1.011	4.218	0.601	0.175	4.37	3	5	7	1.601
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9370	0.0128	0.2368	1.008	3.497	0.748	0.050	4.97	4	6	9	1.747
	200	0.9125	0.0059	0.2301	1.011	4.028	0.650	0.059	4.80	4	6	8	1.651
	300	0.8906	0.0037	0.2260	1.013	4.578	0.563	0.068	4.67	4	6	8	1.563
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9255	0.0113	0.2183	1.008	3.691	0.702	0.074	4.79	4	6	9	1.702
	200	0.9015	0.0052	0.2100	1.011	4.192	0.606	0.085	4.62	3	6	8	1.607
	300	0.8783	0.0033	0.2064	1.013	4.708	0.513	0.085	4.48	3	6	7	1.513
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8979	0.0091	0.1864	1.011	4.146	0.592	0.114	4.47	3	5	7	1.592
	200	0.8706	0.0042	0.1802	1.014	4.660	0.483	0.123	4.30	3	5	7	1.483
	300	0.8475	0.0026	0.1733	1.016	5.139	0.390	0.110	4.16	3	5	7	1.391
Penalised regression methods													
Lasso	100	0.9859	0.1017	0.6398	1.016	4.414	0.945	0.015	13.71	5	25	40	-
	200	0.9719	0.0611	0.6722	1.022	5.266	0.889	0.013	15.87	5	31	60	-
	300	0.9589	0.0453	0.6901	1.025	6.022	0.844	0.007	17.24	4.5	36	63	-
Adaptive Lasso	100	0.9080	0.0087	0.1156	1.015	5.673	0.723	0.403	4.47	2	8	29	-
	200	0.8921	0.0071	0.1760	1.017	6.034	0.672	0.252	4.97	2	10	35	-
	300	0.8699	0.0064	0.2054	1.020	6.756	0.619	0.190	5.38	2	12	56	-
Sica	100	0.7744	0.0052	0.0816	1.021	8.708	0.529	0.305	3.59	1	7	14	-
	200	0.6946	0.0020	0.0728	1.029	10.471	0.394	0.231	3.17	1	6	12	-
	300	0.6375	0.0011	0.0616	1.032	11.833	0.302	0.183	2.86	1	5	13	-
Hard thresholding	100	0.8533	0.0012	0.0207	1.012	6.798	0.698	0.618	3.53	2	5	11	-
	200	0.8228	0.0006	0.0201	1.015	7.602	0.643	0.564	3.40	1	5	10	-
	300	0.8103	0.0004	0.0195	1.016	8.105	0.622	0.549	3.35	1	5	9	-
Boosting methods													
$v = 0.1$	100	1.0000	0.3803	0.8992	1.026	4.948	1.000	0.000	40.51	31	50	59	-
	200	1.0000	0.3478	0.9443	1.047	7.417	1.000	0.000	72.16	63	80	88	-
	300	0.9999	0.2865	0.9548	1.055	8.565	1.000	0.000	88.80	81	97	105	-
$v = 1$	100	0.9998	0.1840	0.8023	1.050	9.587	0.999	0.000	21.66	13	32	47	-
	200	0.9986	0.1817	0.8943	1.097	16.913	0.996	0.000	39.62	27	55	88	-
	300	0.9984	0.1867	0.9301	1.141	24.620	0.994	0.000	59.26	42	80	119	-

Notes: See notes to Table 55.

3.5 Findings for designs with nonzero slopes (all variables are signals)

Table 91: MC findings for DGPV

$T = 100$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2735	0.0018	0.0389	0.976	0.426	0.000	3.17	2	5	7	1.026
	200	0.2607	0.0009	0.0434	0.975	0.443	0.000	3.04	2	5	7	1.019
	300	0.2540	0.0006	0.0422	0.975	0.418	0.000	2.96	2	4	7	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2618	0.0009	0.0212	0.974	0.403	0.000	2.96	2	4	7	1.015
	200	0.2502	0.0005	0.0245	0.973	0.407	0.000	2.84	2	4	6	1.009
	300	0.2440	0.0003	0.0261	0.973	0.396	0.000	2.78	2	4	7	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2377	0.0003	0.0072	0.974	0.377	0.000	2.64	2	4	7	1.008
	200	0.2313	0.0002	0.0082	0.973	0.387	0.000	2.57	2	4	5	1.006
	300	0.2258	0.0001	0.0072	0.973	0.369	0.000	2.51	2	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2730	0.0016	0.0357	0.975	0.404	0.000	3.15	2	5	7	1.005
	200	0.2605	0.0008	0.0400	0.974	0.422	0.000	3.02	2	5	7	1.004
	300	0.2538	0.0005	0.0399	0.974	0.409	0.000	2.95	2	4	7	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2615	0.0008	0.0193	0.973	0.389	0.000	2.95	2	4	7	1.004
	200	0.2500	0.0005	0.0231	0.972	0.396	0.000	2.84	2	4	6	1.002
	300	0.2439	0.0003	0.0244	0.973	0.389	0.000	2.77	2	4	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2375	0.0002	0.0059	0.974	0.367	0.000	2.63	2	4	7	1.002
	200	0.2311	0.0001	0.0073	0.972	0.377	0.000	2.57	2	4	5	1.000
	300	0.2257	0.0001	0.0063	0.973	0.364	0.000	2.51	2	4	6	1.001
Penalised regression methods												
Lasso	100	0.3270	0.0507	0.4440	1.006	0.565	0.000	8.11	2	18	37	-
	200	0.3097	0.0378	0.5418	1.013	0.644	0.000	10.55	2	26	56	-
	300	0.3001	0.0314	0.6021	1.019	0.669	0.000	12.38	3	30	83	-
Adaptive Lasso	100	0.1327	0.0012	0.0234	1.024	0.664	0.000	1.57	1	3	19	-
	200	0.1433	0.0026	0.0585	1.022	0.757	0.000	2.07	1	4	40	-
	300	0.1468	0.0030	0.0801	1.024	0.784	0.000	2.47	1	5	53	-
Sica	100	0.1061	0.0007	0.0171	1.027	0.953	0.000	1.23	1	2	21	-
	200	0.1037	0.0004	0.0184	1.027	1.007	0.000	1.21	1	2	13	-
	300	0.1010	0.0002	0.0151	1.028	0.957	0.000	1.17	1	2	12	-
Hard thresholding	100	0.1164	0.0011	0.0241	1.025	0.940	0.000	1.38	1	3	9	-
	200	0.1144	0.0006	0.0274	1.024	1.015	0.000	1.37	1	3	11	-
	300	0.1127	0.0007	0.0388	1.030	1.071	0.000	1.45	1	3	16	-
Boosting methods												
$v = 0.1$	100	0.5712	0.3778	0.8407	1.093	1.724	0.001	39.91	29	49	58	-
	200	0.5244	0.3108	0.9105	1.147	2.167	0.000	64.51	58	71	78	-
	300	0.4789	0.2396	0.9292	1.153	2.057	0.000	74.51	67	82	91	-
$v = 1$	100	0.3874	0.2105	0.8036	1.189	3.186	0.000	23.00	12	39	71	-
	200	0.4067	0.2536	0.9107	1.348	5.211	0.000	52.40	30	82	106	-
	300	0.4054	0.2599	0.9425	1.648	36.027	0.000	79.57	51	112	136	-

Notes: TPR is computed assuming that variables $i = 1, 2, ..., 11$ are the signal variables , FPR and FDR are computed assuming variables $i > 11$ are the noise variables, rRMSFE is an out-of-sample root mean square forecast error relative to the benchmark model containing first 11 covariates, rRMSE$_{\tilde{\beta}}$ is the root mean square error of $\tilde{\boldsymbol{\beta}}$ relative to the benchmark model featuring the first 11 covariates, and $\hat{\pi}_{11}$ is the probability that variables $i = 1, 2, ..., 11$ are among the selected variables. $\bar{\hat{\kappa}}$, $\hat{\kappa}_5$, $\hat{\kappa}_{95}$ and $\hat{\kappa}_{\max}$ are, respectively, the average , 5-the quantile, 95-th quantile and the maximum of the number of selected regressors. Slope coefficients in DGPV are set to $\beta_i = 1/i^2$, for $i = 1, 2, ..., n$. See CKP for details of the MC design.

Table 92: MC findings for DGPV

$T = 300$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3790	0.0013	0.0221	0.994	0.558	0.000	4.28	3	6	8	1.016
	200	0.3653	0.0007	0.0241	0.996	0.546	0.000	4.14	3	6	8	1.008
	300	0.3557	0.0004	0.0237	0.995	0.548	0.000	4.03	3	6	7	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3666	0.0007	0.0118	0.994	0.542	0.000	4.09	3	5	8	1.013
	200	0.3542	0.0003	0.0125	0.995	0.526	0.000	3.96	3	5	8	1.005
	300	0.3444	0.0002	0.0119	0.995	0.528	0.000	3.85	3	5	7	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3417	0.0001	0.0023	0.994	0.516	0.000	3.77	3	5	6	1.006
	200	0.3315	0.0001	0.0026	0.995	0.508	0.000	3.66	3	5	6	1.002
	300	0.3222	0.0000	0.0025	0.995	0.502	0.000	3.56	3	5	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3784	0.0012	0.0208	0.994	0.547	0.000	4.27	3	6	8	1.004
	200	0.3651	0.0006	0.0231	0.996	0.537	0.000	4.13	3	6	8	1.001
	300	0.3553	0.0004	0.0224	0.995	0.533	0.000	4.02	3	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3659	0.0006	0.0110	0.994	0.529	0.000	4.08	3	5	8	1.002
	200	0.3541	0.0003	0.0119	0.995	0.520	0.000	3.95	3	5	8	1.001
	300	0.3440	0.0002	0.0111	0.994	0.517	0.000	3.84	3	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3414	0.0001	0.0021	0.994	0.510	0.000	3.77	3	5	6	1.002
	200	0.3315	0.0001	0.0025	0.995	0.508	0.000	3.66	3	5	6	1.001
	300	0.3220	0.0000	0.0024	0.995	0.498	0.000	3.55	3	5	6	1.000
Penalised regression methods												
Lasso	100	0.4369	0.0596	0.4306	1.006	0.712	0.000	10.11	4	20	48	-
	200	0.4155	0.0357	0.4851	1.010	0.745	0.000	11.31	3	25	51	-
	300	0.3973	0.0276	0.5315	1.012	0.755	0.000	12.33	4	28	66	-
Adaptive Lasso	100	0.1776	0.0013	0.0103	1.037	1.514	0.000	2.07	1	3	22	-
	200	0.1878	0.0023	0.0313	1.036	1.516	0.000	2.51	1	4	35	-
	300	0.1944	0.0026	0.0505	1.035	1.470	0.000	2.89	1	11	39	-
Sica	100	0.1527	0.0013	0.0243	1.040	2.371	0.000	1.79	1	4	9	-
	200	0.1371	0.0004	0.0149	1.048	2.500	0.000	1.57	1	3	8	-
	300	0.1302	0.0002	0.0127	1.051	2.473	0.000	1.48	1	3	7	-
Hard thresholding	100	0.1585	0.0005	0.0091	1.035	2.048	0.000	1.79	1	3	12	-
	200	0.1532	0.0002	0.0078	1.038	2.108	0.000	1.72	1	3	9	-
	300	0.1470	0.0001	0.0063	1.040	2.129	0.000	1.64	1	3	9	-
Boosting methods												
$v = 0.1$	100	0.6338	0.3707	0.8231	1.031	1.809	0.002	39.96	30	51	57	-
	200	0.6263	0.3446	0.9040	1.062	2.708	0.003	72.01	63	80	87	-
	300	0.5848	0.2802	0.9263	1.072	2.881	0.001	87.42	80	95	102	-
$v = 1$	100	0.4444	0.1855	0.7604	1.072	3.750	0.000	21.40	13	32	50	-
	200	0.4460	0.1893	0.8745	1.146	6.526	0.000	40.68	27	59	92	-
	300	0.4480	0.2029	0.9195	1.213	9.055	0.000	63.56	43	93	132	-

Notes: See notes to Table 91.

Table 93: MC findings for DGPV

$T = 500$, $R^2 = 70\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4288	0.0014	0.0206	0.998	0.635	0.000	4.84	4	6	11	1.020
	200	0.4133	0.0006	0.0195	0.999	0.618	0.000	4.66	4	6	9	1.015
	300	0.4061	0.0004	0.0227	0.998	0.626	0.000	4.59	4	6	8	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4151	0.0007	0.0110	0.998	0.608	0.000	4.63	4	6	9	1.012
	200	0.4010	0.0003	0.0109	0.998	0.602	0.000	4.47	4	6	8	1.009
	300	0.3956	0.0002	0.0122	0.998	0.599	0.000	4.42	3	6	7	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3908	0.0001	0.0025	0.998	0.583	0.000	4.31	3	5	8	1.004
	200	0.3789	0.0001	0.0031	0.998	0.583	0.000	4.18	3	5	7	1.005
	300	0.3745	0.0000	0.0023	0.998	0.578	0.000	4.13	3	5	7	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4279	0.0013	0.0193	0.998	0.618	0.000	4.82	4	6	9	1.002
	200	0.4128	0.0005	0.0181	0.998	0.600	0.000	4.64	4	6	9	1.002
	300	0.4056	0.0004	0.0215	0.998	0.611	0.000	4.58	4	6	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4145	0.0007	0.0104	0.998	0.595	0.000	4.62	4	6	8	1.002
	200	0.4006	0.0003	0.0102	0.998	0.591	0.000	4.46	3	6	8	1.002
	300	0.3953	0.0002	0.0116	0.998	0.590	0.000	4.41	3	6	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3905	0.0001	0.0025	0.998	0.580	0.000	4.31	3	5	8	1.001
	200	0.3788	0.0001	0.0026	0.998	0.576	0.000	4.18	3	5	7	1.001
	300	0.3744	0.0000	0.0023	0.998	0.575	0.000	4.13	3	5	7	1.001
Penalised regression methods												
Lasso	100	0.5013	0.0647	0.4228	1.005	0.770	0.000	11.27	5	22	51	-
	200	0.4709	0.0365	0.4720	1.008	0.814	0.000	12.08	4	29	45	-
	300	0.4575	0.0288	0.5097	1.008	0.860	0.000	13.36	4	26.5	60	-
Adaptive Lasso	100	0.2055	0.0030	0.0258	1.032	1.886	0.000	2.53	1	6	25	-
	200	0.2147	0.0029	0.0487	1.032	1.859	0.000	2.90	1	9	22	-
	300	0.2283	0.0036	0.0841	1.029	1.830	0.000	3.54	1	12	27	-
Sica	100	0.2076	0.0019	0.0314	1.027	2.976	0.000	2.45	1	5	20	-
	200	0.1840	0.0005	0.0175	1.033	3.246	0.000	2.11	1	4	10	-
	300	0.1794	0.0003	0.0179	1.033	3.372	0.000	2.05	1	4	9	-
Hard thresholding	100	0.1941	0.0004	0.0073	1.029	2.625	0.000	2.17	1	4	8	-
	200	0.1839	0.0001	0.0044	1.031	2.716	0.000	2.05	1	3	13	-
	300	0.1836	0.0001	0.0050	1.029	2.684	0.000	2.04	1	3	7	-
Boosting methods												
$v = 0.1$	100	0.6716	0.3652	0.8120	1.018	1.794	0.003	39.89	30	50	61	-
	200	0.6659	0.3488	0.8996	1.038	2.743	0.001	73.25	63	82	90	-
	300	0.6375	0.2912	0.9229	1.045	3.060	0.001	91.17	83	99	109	-
$v = 1$	100	0.4800	0.1790	0.7386	1.044	3.839	0.000	21.21	13	31	41	-
	200	0.4783	0.1780	0.8599	1.089	6.531	0.000	38.90	27	54	78	-
	300	0.4793	0.1856	0.9080	1.133	9.403	0.000	58.91	42	79	113	-

Notes: See notes to Table 91.

Table 94: MC findings for DGPV

$T = 100$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2409	0.0015	0.0372	0.968	0.379	0.000	2.78	2	4	7	1.016
	200	0.2252	0.0008	0.0425	0.969	0.376	0.000	2.63	2	4	6	1.012
	300	0.2207	0.0006	0.0486	0.970	0.392	0.000	2.60	2	4	6	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2276	0.0008	0.0214	0.967	0.342	0.000	2.58	2	4	6	1.009
	200	0.2158	0.0004	0.0250	0.967	0.344	0.000	2.46	2	4	5	1.008
	300	0.2113	0.0003	0.0289	0.968	0.358	0.000	2.42	2	4	6	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2050	0.0002	0.0056	0.965	0.304	0.000	2.27	1	3	5	1.003
	200	0.1964	0.0001	0.0058	0.965	0.304	0.000	2.18	1	3	5	1.003
	300	0.1930	0.0001	0.0088	0.966	0.311	0.000	2.15	1	3	4	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2406	0.0014	0.0345	0.968	0.360	0.000	2.77	2	4	6	1.003
	200	0.2251	0.0007	0.0397	0.968	0.362	0.000	2.62	2	4	6	1.001
	300	0.2207	0.0006	0.0452	0.969	0.374	0.000	2.59	2	4	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2275	0.0008	0.0193	0.966	0.333	0.000	2.57	2	4	6	1.001
	200	0.2158	0.0004	0.0227	0.966	0.333	0.000	2.45	2	4	5	1.001
	300	0.2113	0.0003	0.0260	0.967	0.345	0.000	2.41	2	4	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2050	0.0002	0.0048	0.964	0.299	0.000	2.27	1	3	5	1.000
	200	0.1964	0.0001	0.0050	0.965	0.299	0.000	2.18	1	3	5	1.001
	300	0.1930	0.0001	0.0083	0.965	0.310	0.000	2.15	1	3	4	1.000
Penalised regression methods												
Lasso	100	0.2660	0.0480	0.4681	0.996	0.460	0.000	7.20	2	17	45	-
	200	0.2457	0.0355	0.5726	1.002	0.521	0.000	9.41	2	24	62	-
	300	0.2405	0.0302	0.6218	1.008	0.554	0.000	11.38	2	30	67	-
Adaptive Lasso	100	0.1174	0.0018	0.0405	0.992	0.398	0.000	1.45	1	3	15	-
	200	0.1228	0.0030	0.0884	0.992	0.474	0.000	1.91	1	5	49	-
	300	0.1271	0.0031	0.1382	0.994	0.511	0.000	2.29	1	7	51	-
Sica	100	0.0995	0.0012	0.0291	0.988	0.636	0.000	1.20	1	2	13	-
	200	0.0962	0.0005	0.0308	0.988	0.602	0.000	1.15	1	2	8	-
	300	0.0959	0.0003	0.0304	0.989	0.592	0.000	1.14	1	2	9	-
Hard thresholding	100	0.1049	0.0014	0.0312	0.988	0.651	0.000	1.28	1	2	20	-
	200	0.1040	0.0011	0.0463	0.992	0.722	0.000	1.35	1	3	24	-
	300	0.1016	0.0007	0.0458	0.992	0.686	0.000	1.31	1	3	13	-
Boosting methods												
$v = 0.1$	100	0.5305	0.3780	0.8502	1.088	1.652	0.000	39.48	28	49	57	-
	200	0.4784	0.3130	0.9182	1.145	2.033	0.000	64.41	58	71	80	-
	300	0.4250	0.2422	0.9373	1.148	2.008	0.000	74.67	67	82	89	-
$v = 1$	100	0.3425	0.2078	0.8215	1.176	2.966	0.000	22.27	12	39	71	-
	200	0.3656	0.2486	0.9184	1.333	4.882	0.000	51.01	30	80	109	-
	300	0.3703	0.2602	0.9475	2.005	>100	0.000	79.27	51	110	139	-

Notes: See notes to Table 91.

Table 95: MC findings for DGPV

$T = 300$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3425	0.0013	0.0244	0.992	0.494	0.000	3.89	3	5	8	1.016
	200	0.3285	0.0006	0.0256	0.992	0.482	0.000	3.73	3	5	8	1.009
	300	0.3214	0.0005	0.0285	0.993	0.505	0.000	3.67	3	5	7	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3308	0.0007	0.0130	0.991	0.458	0.000	3.70	3	5	8	1.007
	200	0.3175	0.0003	0.0145	0.992	0.451	0.000	3.56	3	5	7	1.006
	300	0.3111	0.0002	0.0148	0.992	0.460	0.000	3.49	3	5	7	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3064	0.0002	0.0032	0.991	0.420	0.000	3.38	3	4	6	1.003
	200	0.2978	0.0001	0.0036	0.991	0.417	0.000	3.29	2	4	7	1.002
	300	0.2916	0.0000	0.0033	0.991	0.412	0.000	3.22	2	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3423	0.0012	0.0219	0.991	0.476	0.000	3.87	3	5	7	1.002
	200	0.3284	0.0006	0.0240	0.992	0.470	0.000	3.72	3	5	8	1.001
	300	0.3214	0.0004	0.0276	0.993	0.495	0.000	3.66	3	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3307	0.0006	0.0119	0.991	0.446	0.000	3.69	3	5	7	1.001
	200	0.3174	0.0003	0.0134	0.992	0.445	0.000	3.55	3	5	7	1.001
	300	0.3111	0.0002	0.0142	0.992	0.453	0.000	3.49	3	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3064	0.0001	0.0027	0.991	0.416	0.000	3.38	3	4	6	1.000
	200	0.2978	0.0001	0.0033	0.991	0.414	0.000	3.29	2	4	7	1.000
	300	0.2916	0.0000	0.0032	0.991	0.411	0.000	3.22	2	4	6	1.000
Penalised regression methods												
Lasso	100	0.3595	0.0544	0.4463	1.003	0.587	0.000	8.80	3	19	42	-
	200	0.3289	0.0304	0.4905	1.006	0.613	0.000	9.36	3	21	46	-
	300	0.3171	0.0239	0.5293	1.008	0.644	0.000	10.40	3	24	53	-
Adaptive Lasso	100	0.1425	0.0012	0.0151	1.015	0.857	0.000	1.67	1	3	25	-
	200	0.1460	0.0011	0.0264	1.014	0.859	0.000	1.81	1	3	38	-
	300	0.1477	0.0008	0.0307	1.014	0.855	0.000	1.85	1	3	33	-
Sica	100	0.1118	0.0007	0.0134	1.018	1.269	0.000	1.29	1	2	13	-
	200	0.1048	0.0002	0.0091	1.018	1.245	0.000	1.19	1	2	9	-
	300	0.1018	0.0001	0.0076	1.020	1.289	0.000	1.15	1	2	11	-
Hard thresholding	100	0.1240	0.0009	0.0200	1.015	1.196	0.000	1.44	1	3	8	-
	200	0.1165	0.0003	0.0145	1.015	1.159	0.000	1.33	1	3	8	-
	300	0.1148	0.0002	0.0146	1.017	1.190	0.000	1.32	1	2	10	-
Boosting methods												
$v = 0.1$	100	0.5795	0.3697	0.8356	1.030	1.747	0.001	39.28	29	49	62	-
	200	0.5683	0.3474	0.9128	1.060	2.644	0.001	71.92	62.5	80	86	-
	300	0.5285	0.2837	0.9337	1.071	2.865	0.000	87.81	80	96	104	-
$v = 1$	100	0.3846	0.1813	0.7817	1.070	3.591	0.000	20.37	12	31	51	-
	200	0.3859	0.1880	0.8899	1.138	6.112	0.000	39.77	27	57	94	-
	300	0.3965	0.2055	0.9295	1.209	8.862	0.000	63.75	43	90	122	-

Notes: See notes to Table 91.

Table 96: MC findings for DGPV

$T = 500$, $R^2 = 50\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3947	0.0014	0.0229	0.997	0.566	0.000	4.46	3	6	9	1.016
	200	0.3772	0.0005	0.0193	0.997	0.545	0.000	4.25	3	6	9	1.009
	300	0.3712	0.0003	0.0182	0.996	0.539	0.000	4.18	3	6	8	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3822	0.0007	0.0123	0.996	0.537	0.000	4.27	3	6	9	1.009
	200	0.3669	0.0003	0.0106	0.996	0.515	0.000	4.09	3	5	8	1.005
	300	0.3597	0.0002	0.0105	0.996	0.508	0.000	4.01	3	5	7	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3570	0.0002	0.0031	0.996	0.497	0.000	3.94	3	5	6	1.002
	200	0.3459	0.0001	0.0024	0.996	0.473	0.000	3.82	3	5	7	1.001
	300	0.3388	0.0000	0.0023	0.995	0.473	0.000	3.74	3	5	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3944	0.0013	0.0207	0.996	0.551	0.000	4.45	3	6	9	1.002
	200	0.3771	0.0005	0.0178	0.997	0.534	0.000	4.24	3	6	9	1.001
	300	0.3711	0.0003	0.0170	0.996	0.529	0.000	4.17	3	6	8	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3821	0.0007	0.0112	0.996	0.528	0.000	4.26	3	6	9	1.001
	200	0.3668	0.0003	0.0098	0.996	0.508	0.000	4.08	3	5	8	1.001
	300	0.3597	0.0002	0.0099	0.996	0.503	0.000	4.01	3	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3569	0.0001	0.0028	0.996	0.494	0.000	3.94	3	5	6	1.000
	200	0.3459	0.0001	0.0023	0.996	0.470	0.000	3.82	3	5	7	1.000
	300	0.3388	0.0000	0.0021	0.995	0.471	0.000	3.74	3	5	6	1.000
Penalised regression methods												
Lasso	100	0.4011	0.0568	0.4346	1.003	0.636	0.000	9.47	3	20	36	-
	200	0.3790	0.0332	0.4867	1.006	0.665	0.000	10.45	3	23.5	44	-
	300	0.3639	0.0242	0.5131	1.005	0.679	0.000	11.00	3	25	87	-
Adaptive Lasso	100	0.1605	0.0007	0.0064	1.018	1.220	0.000	1.83	1	3	22	-
	200	0.1686	0.0013	0.0196	1.018	1.232	0.000	2.11	1	3	27	-
	300	0.1723	0.0012	0.0232	1.014	1.197	0.000	2.23	1	3	50	-
Sica	100	0.1310	0.0010	0.0178	1.021	1.867	0.000	1.53	1	3	13	-
	200	0.1183	0.0002	0.0108	1.023	1.913	0.000	1.35	1	2	10	-
	300	0.1126	0.0002	0.0115	1.022	1.928	0.000	1.29	1	2	7	-
Hard thresholding	100	0.1432	0.0006	0.0122	1.018	1.636	0.000	1.63	1	3	8	-
	200	0.1349	0.0002	0.0103	1.018	1.697	0.000	1.52	1	3	6	-
	300	0.1308	0.0002	0.0114	1.018	1.687	0.000	1.49	1	3	9	-
Boosting methods												
$v = 0.1$	100	0.6074	0.3673	0.8281	1.017	1.690	0.002	39.37	30	49	58	-
	200	0.6020	0.3503	0.9087	1.038	2.693	0.001	72.83	62	82	90	-
	300	0.5698	0.2942	0.9312	1.045	2.914	0.001	91.29	83	99	109	-
$v = 1$	100	0.4187	0.1777	0.7643	1.042	3.618	0.000	20.42	13	31	48	-
	200	0.4187	0.1767	0.8747	1.088	6.344	0.000	38.00	25	53	80	-
	300	0.4230	0.1837	0.9172	1.130	8.868	0.001	57.75	40	79	106	-

Notes: See notes to Table 91.

Table 97: MC findings for DGPV

$T = 100$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.1847	0.0016	0.0459	0.967	0.360	0.000	2.17	1	4	7	1.009
	200	0.1727	0.0009	0.0571	0.968	0.390	0.000	2.07	1	4	6	1.011
	300	0.1664	0.0006	0.0620	0.969	0.392	0.000	2.00	1	3	6	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.1703	0.0009	0.0270	0.965	0.342	0.000	1.95	1	3	5	1.008
	200	0.1617	0.0005	0.0342	0.965	0.367	0.000	1.87	1	3	5	1.007
	300	0.1559	0.0003	0.0385	0.968	0.370	0.000	1.81	1	3	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.1472	0.0002	0.0081	0.965	0.344	0.000	1.64	1	3	5	1.003
	200	0.1411	0.0001	0.0088	0.965	0.371	0.000	1.57	1	3	5	1.002
	300	0.1350	0.0001	0.0108	0.968	0.368	0.000	1.51	1	3	4	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.1846	0.0015	0.0435	0.966	0.352	0.000	2.16	1	4	7	1.002
	200	0.1726	0.0008	0.0544	0.967	0.379	0.000	2.06	1	4	6	1.001
	300	0.1664	0.0006	0.0605	0.969	0.387	0.000	2.00	1	3	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.1702	0.0008	0.0247	0.965	0.334	0.000	1.94	1	3	5	1.002
	200	0.1617	0.0005	0.0319	0.965	0.358	0.000	1.87	1	3	5	1.001
	300	0.1559	0.0003	0.0371	0.967	0.364	0.000	1.81	1	3	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.1472	0.0002	0.0071	0.965	0.341	0.000	1.64	1	3	5	1.001
	200	0.1411	0.0001	0.0079	0.965	0.368	0.000	1.57	1	3	5	1.000
	300	0.1350	0.0001	0.0108	0.968	0.368	0.000	1.51	1	3	4	1.000
Penalised regression methods												
Lasso	100	0.2157	0.0479	0.5100	0.987	0.402	0.000	6.63	1	16	29	-
	200	0.1981	0.0365	0.6334	0.992	0.456	0.000	9.08	2	23	51	-
	300	0.1913	0.0303	0.6824	0.999	0.501	0.000	10.86	2	29	71	-
Adaptive Lasso	100	0.1153	0.0044	0.1092	0.975	0.352	0.000	1.66	1	4	13	-
	200	0.1178	0.0051	0.1930	0.977	0.435	0.000	2.26	1	7	39	-
	300	0.1196	0.0055	0.2594	0.985	0.522	0.000	2.89	1	10	47	-
Sica	100	0.0982	0.0029	0.0898	0.979	0.651	0.000	1.34	1	3	12	-
	200	0.0950	0.0014	0.0887	0.979	0.681	0.000	1.30	1	3	11	-
	300	0.0935	0.0009	0.0929	0.983	0.715	0.000	1.30	1	3	9	-
Hard thresholding	100	0.1010	0.0027	0.0786	0.978	0.653	0.000	1.35	1	3	11	-
	200	0.0983	0.0018	0.0983	0.983	0.785	0.000	1.42	1	3	19	-
	300	0.0972	0.0014	0.1178	0.990	0.885	0.000	1.49	1	3.5	18	-
Boosting methods												
$v = 0.1$	100	0.4963	0.3775	0.8586	1.084	1.594	0.000	39.06	28	49	55	-
	200	0.4409	0.3151	0.9246	1.141	2.040	0.000	64.40	58	71	79	-
	300	0.3858	0.2438	0.9431	1.145	1.985	0.000	74.69	67	82	90	-
$v = 1$	100	0.3090	0.2048	0.8351	1.167	2.787	0.000	21.63	11	37	70	-
	200	0.3420	0.2516	0.9245	1.358	30.410	0.000	51.32	29	80	108	-
	300	0.3444	0.2595	0.9510	3.116	>100	0.000	78.79	50	111	136	-

Notes: See notes to Table 91.

Table 98: MC findings for DGPV

$T = 300$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2893	0.0011	0.0245	0.990	0.430	0.000	3.28	2	5	6	1.004
	200	0.2792	0.0005	0.0224	0.990	0.401	0.000	3.16	2	5	7	1.003
	300	0.2718	0.0004	0.0295	0.990	0.450	0.000	3.11	2	4	7	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2782	0.0006	0.0120	0.989	0.395	0.000	3.11	2	4	6	1.004
	200	0.2682	0.0002	0.0117	0.989	0.364	0.000	3.00	2	4	6	1.001
	300	0.2612	0.0002	0.0178	0.989	0.410	0.000	2.94	2	4	7	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2529	0.0001	0.0034	0.989	0.352	0.000	2.79	2	4	6	1.000
	200	0.2462	0.0000	0.0021	0.988	0.328	0.000	2.72	2	4	5	1.000
	300	0.2402	0.0001	0.0059	0.989	0.364	0.000	2.66	2	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2892	0.0011	0.0238	0.990	0.425	0.000	3.28	2	5	6	1.000
	200	0.2792	0.0005	0.0218	0.990	0.398	0.000	3.16	2	5	7	1.000
	300	0.2718	0.0004	0.0288	0.990	0.445	0.000	3.11	2	4	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2780	0.0005	0.0113	0.989	0.389	0.000	3.11	2	4	6	1.000
	200	0.2682	0.0002	0.0115	0.989	0.363	0.000	2.99	2	4	6	1.000
	300	0.2612	0.0002	0.0171	0.989	0.403	0.000	2.94	2	4	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2529	0.0001	0.0034	0.989	0.352	0.000	2.79	2	4	6	1.000
	200	0.2462	0.0000	0.0021	0.988	0.328	0.000	2.72	2	4	5	1.000
	300	0.2402	0.0001	0.0056	0.989	0.359	0.000	2.66	2	4	6	1.000
Penalised regression methods												
Lasso	100	0.2798	0.0433	0.4293	1.000	0.474	0.000	6.94	2	16	31	-
	200	0.2595	0.0276	0.5084	1.001	0.495	0.000	8.07	2	19	53	-
	300	0.2481	0.0218	0.5438	1.004	0.549	0.000	9.04	2	23.5	49	-
Adaptive Lasso	100	0.1199	0.0009	0.0217	1.001	0.445	0.000	1.40	1	3	8	-
	200	0.1249	0.0012	0.0497	1.000	0.449	0.000	1.60	1	3	27	-
	300	0.1249	0.0013	0.0773	1.001	0.500	0.000	1.75	1	4	38	-
Sica	100	0.1006	0.0006	0.0146	1.000	0.656	0.000	1.16	1	2	7	-
	200	0.0957	0.0002	0.0093	0.999	0.608	0.000	1.08	1	2	5	-
	300	0.0948	0.0001	0.0106	1.000	0.621	0.000	1.07	1	2	5	-
Hard thresholding	100	0.1072	0.0007	0.0181	0.999	0.632	0.000	1.24	1	2	6	-
	200	0.1037	0.0004	0.0209	0.999	0.661	0.000	1.22	1	2	10	-
	300	0.1009	0.0002	0.0225	1.000	0.672	0.000	1.18	1	2	9	-
Boosting methods												
$v = 0.1$	100	0.5376	0.3637	0.8436	1.026	1.564	0.000	38.29	28	49	57	-
	200	0.5237	0.3480	0.9193	1.060	2.538	0.000	71.53	61	80	88	-
	300	0.4757	0.2864	0.9405	1.071	2.813	0.000	88.01	80	96	106	-
$v = 1$	100	0.3319	0.1750	0.8017	1.063	3.138	0.000	19.22	11	30	46	-
	200	0.3362	0.1872	0.9027	1.137	5.748	0.000	39.08	25	57	81	-
	300	0.3447	0.2016	0.9371	1.202	8.460	0.000	62.05	42	89	126	-

Notes: See notes to Table 91.

Table 99: MC findings for DGPV

$T = 500$, $R^2 = 30\%$, G-SU (Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3360	0.0011	0.0205	0.995	0.473	0.000	3.79	3	5	7	1.006
	200	0.3263	0.0006	0.0257	0.995	0.505	0.000	3.71	3	5	7	1.003
	300	0.3214	0.0004	0.0272	0.996	0.500	0.000	3.66	3	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3238	0.0006	0.0115	0.994	0.442	0.000	3.61	3	5	7	1.005
	200	0.3148	0.0003	0.0133	0.995	0.463	0.000	3.52	3	5	7	1.002
	300	0.3102	0.0002	0.0151	0.995	0.455	0.000	3.48	3	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3025	0.0001	0.0022	0.994	0.396	0.000	3.34	2.5	4	6	1.002
	200	0.2949	0.0001	0.0025	0.994	0.410	0.000	3.25	2	4	6	1.000
	300	0.2905	0.0001	0.0035	0.995	0.405	0.000	3.21	2	4	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3359	0.0010	0.0199	0.995	0.466	0.000	3.79	3	5	7	1.001
	200	0.3263	0.0006	0.0251	0.995	0.502	0.000	3.71	3	5	7	1.000
	300	0.3214	0.0004	0.0269	0.996	0.499	0.000	3.66	3	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3237	0.0006	0.0109	0.994	0.434	0.000	3.61	3	5	7	1.001
	200	0.3148	0.0003	0.0130	0.995	0.460	0.000	3.52	3	5	7	1.000
	300	0.3102	0.0002	0.0150	0.995	0.454	0.000	3.48	3	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3025	0.0001	0.0018	0.994	0.391	0.000	3.33	2.5	4	6	1.000
	200	0.2949	0.0001	0.0025	0.994	0.410	0.000	3.25	2	4	6	1.000
	300	0.2905	0.0001	0.0035	0.995	0.405	0.000	3.21	2	4	6	1.000
Penalised regression methods												
Lasso	100	0.3220	0.0470	0.4259	1.001	0.528	0.000	7.72	2	17	33	-
	200	0.2990	0.0286	0.4945	1.003	0.561	0.000	8.69	2	20	49	-
	300	0.2875	0.0213	0.5253	1.004	0.603	0.000	9.33	2	23	58	-
Adaptive Lasso	100	0.1306	0.0007	0.0160	1.005	0.651	0.000	1.50	1	3	16	-
	200	0.1342	0.0007	0.0262	1.005	0.643	0.000	1.60	1	3	32	-
	300	0.1367	0.0007	0.0388	1.005	0.682	0.000	1.69	1	3	45	-
Sica	100	0.1034	0.0006	0.0115	1.006	0.967	0.000	1.19	1	2	10	-
	200	0.0991	0.0001	0.0067	1.006	0.905	0.000	1.11	1	2	6	-
	300	0.0970	0.0000	0.0040	1.007	0.956	0.000	1.08	1	2	7	-
Hard thresholding	100	0.1135	0.0007	0.0158	1.005	0.947	0.000	1.32	1	3	8	-
	200	0.1103	0.0003	0.0157	1.005	0.909	0.000	1.27	1	2	6	-
	300	0.1090	0.0001	0.0125	1.006	0.929	0.000	1.24	1	2	6	-
Boosting methods												
$v = 0.1$	100	0.5593	0.3626	0.8380	1.016	1.625	0.001	38.43	29	48	61	-
	200	0.5492	0.3528	0.9167	1.038	2.634	0.000	72.72	62	81	89	-
	300	0.5145	0.2977	0.9382	1.045	2.991	0.000	91.70	84	100	108	-
$v = 1$	100	0.3587	0.1727	0.7871	1.039	3.403	0.000	19.32	12	29	42	-
	200	0.3590	0.1755	0.8907	1.086	5.983	0.000	37.13	25	51	74	-
	300	0.3551	0.1822	0.9293	1.129	8.873	0.000	56.57	40	76	106	-

Notes: See notes to Table 91.

4 Findings for Experiments with Non-Gaussian Innovations and Serially Uncorrelated Covariates (NG-SU)

We ordered and numbered individual tables as follows:

Summary table for experiments with non-Gaussian innovations and serially uncorrelated covariates (NG-SU): List of experiments

Table No.	DGP	ω	R^2	T	Table No.	DGP	R^2	T	Table No.	DGP	R^2	T
100	I(a)	-	70%	100	145	II(a)	70%	100	190	V	70%	100
101	I(a)	-	70%	300	146	II(a)	70%	300	191	V	70%	300
102	I(a)	-	70%	500	147	II(a)	70%	500	192	V	70%	500
103	I(a)	-	50%	100	148	II(a)	50%	100	193	V	50%	100
104	I(a)	-	50%	300	149	II(a)	50%	300	194	V	50%	300
105	I(a)	-	50%	500	150	II(a)	50%	500	195	V	50%	500
106	I(a)	-	30%	100	151	II(a)	30%	100	196	V	30%	100
107	I(a)	-	30%	300	152	II(a)	30%	300	197	V	30%	300
108	I(a)	-	30%	500	153	II(a)	30%	500	198	V	30%	500
109	I(b)	-	70%	100	154	II(b)	70%	100				
110	I(b)	-	70%	300	155	II(b)	70%	300				
111	I(b)	-	70%	500	156	II(b)	70%	500				
112	I(b)	-	50%	100	157	II(b)	50%	100				
113	I(b)	-	50%	300	158	II(b)	50%	300				
114	I(b)	-	50%	500	159	II(b)	50%	500				
115	I(b)	-	30%	100	160	II(b)	30%	100				
116	I(b)	-	30%	300	161	II(b)	30%	300				
117	I(b)	-	30%	500	162	II(b)	30%	500				
118	I(c)	-	70%	100	163	III	70%	100				
119	I(c)	-	70%	300	164	III	70%	300				
120	I(c)	-	70%	500	165	III	70%	500				
121	I(c)	-	50%	100	166	III	50%	100				
122	I(c)	-	50%	300	167	III	50%	300				
123	I(c)	-	50%	500	168	III	50%	500				
124	I(c)	-	30%	100	169	III	30%	100				
125	I(c)	-	30%	300	170	III	30%	300				
126	I(c)	-	30%	500	171	III	30%	500				
127	I(d)	low	70%	100	172	IV(a)	70%	100				
128	I(d)	low	70%	300	173	IV(a)	70%	300				
129	I(d)	low	70%	500	174	IV(a)	70%	500				
130	I(d)	low	50%	100	175	IV(a)	50%	100				
131	I(d)	low	50%	300	176	IV(a)	50%	300				
132	I(d)	low	50%	500	177	IV(a)	50%	500				
133	I(d)	low	30%	100	178	IV(a)	30%	100				
134	I(d)	low	30%	300	179	IV(a)	30%	300				
135	I(d)	low	30%	500	180	IV(a)	30%	500				
136	I(d)	high	70%	100	181	IV(b)	70%	100				
137	I(d)	high	70%	300	182	IV(b)	70%	300				
138	I(d)	high	70%	500	183	IV(b)	70%	500				
139	I(d)	high	50%	100	184	IV(b)	50%	100				
140	I(d)	high	50%	300	185	IV(b)	50%	300				
141	I(d)	high	50%	500	186	IV(b)	50%	500				
142	I(d)	high	30%	100	187	IV(b)	30%	100				
143	I(d)	high	30%	300	188	IV(b)	30%	300				
144	I(d)	high	30%	500	189	IV(b)	30%	500				

Notes: ω is the average pair-wise correlation of the signal variables. The low value is $\omega = 0.2$ and the high value is $\omega = 0.8$. See section 5 of CKP for a full description of MC design.

4.1 Findings for designs with zero correlation between signal and noise variables

Table 100: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0021	0.0385	1.007	1.230	1.000	0.829	4.21	4	5	8	1.033
	200	0.9995	0.0013	0.0464	1.009	1.315	0.998	0.793	4.24	4	5	7	1.041
	300	0.9999	0.0009	0.0499	1.009	1.294	1.000	0.778	4.26	4	5	8	1.034
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0013	0.0239	1.005	1.159	1.000	0.889	4.12	4	5	8	1.025
	200	0.9995	0.0008	0.0298	1.007	1.228	0.998	0.862	4.15	4	5	7	1.031
	300	0.9998	0.0006	0.0321	1.007	1.240	0.999	0.849	4.17	4	5	8	1.027
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0004	0.0071	1.002	1.089	0.997	0.963	4.03	4	4	6	1.013
	200	0.9990	0.0003	0.0099	1.003	1.115	0.997	0.948	4.05	4	4	6	1.013
	300	0.9988	0.0002	0.0102	1.003	1.148	0.996	0.948	4.05	4	4	6	1.013
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0019	0.0340	1.005	1.167	1.000	0.848	4.18	4	5	8	1.011
	200	0.9995	0.0011	0.0403	1.006	1.199	0.998	0.818	4.21	4	5	7	1.011
	300	0.9999	0.0008	0.0448	1.007	1.207	1.000	0.797	4.23	4	5	7	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0011	0.0202	1.003	1.109	1.000	0.906	4.10	4	5	8	1.007
	200	0.9995	0.0007	0.0253	1.005	1.147	0.998	0.883	4.13	4	5	7	1.010
	300	0.9998	0.0005	0.0281	1.005	1.162	0.999	0.866	4.14	4	5	7	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0003	0.0052	1.001	1.052	0.997	0.972	4.02	4	4	6	1.003
	200	0.9990	0.0002	0.0082	1.002	1.087	0.997	0.957	4.04	4	4	6	1.004
	300	0.9988	0.0001	0.0083	1.002	1.107	0.996	0.956	4.04	4	4	6	1.004

Notes: See notes to Table 1.

Table 101: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0255	1.001	1.144	1.000	0.882	4.13	4	5	7	1.019
	200	1.0000	0.0008	0.0298	1.002	1.194	1.000	0.859	4.15	4	5	7	1.019
	300	1.0000	0.0006	0.0326	1.002	1.193	1.000	0.852	4.17	4	5	7	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0141	1.001	1.093	1.000	0.935	4.07	4	5	6	1.013
	200	1.0000	0.0004	0.0153	1.001	1.131	1.000	0.926	4.08	4	5	6	1.013
	300	1.0000	0.0003	0.0193	1.001	1.119	1.000	0.909	4.10	4	5	6	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0036	1.000	1.024	1.000	0.983	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0039	1.000	1.062	1.000	0.981	4.02	4	4	5	1.006
	300	1.0000	0.0001	0.0053	1.000	1.028	1.000	0.975	4.03	4	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0222	1.001	1.087	1.000	0.898	4.12	4	5	7	1.002
	200	1.0000	0.0007	0.0267	1.001	1.141	1.000	0.873	4.14	4	5	7	1.004
	300	1.0000	0.0005	0.0303	1.002	1.140	1.000	0.862	4.16	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0118	1.000	1.051	1.000	0.946	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0135	1.001	1.103	1.000	0.935	4.07	4	5	6	1.004
	300	1.0000	0.0003	0.0181	1.001	1.092	1.000	0.914	4.09	4	5	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0032	1.000	1.008	1.000	0.985	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0032	1.000	1.040	1.000	0.984	4.02	4	4	5	1.003
	300	1.0000	0.0001	0.0048	1.000	1.014	1.000	0.978	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 102: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0242	1.001	1.130	1.000	0.884	4.12	4	5	7	1.015
	200	1.0000	0.0007	0.0260	1.001	1.149	1.000	0.879	4.14	4	5	7	1.011
	300	1.0000	0.0004	0.0251	1.001	1.116	1.000	0.883	4.13	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0141	1.000	1.092	1.000	0.932	4.07	4	5	6	1.009
	200	1.0000	0.0004	0.0137	1.000	1.085	1.000	0.935	4.07	4	5	6	1.008
	300	1.0000	0.0003	0.0149	1.000	1.071	1.000	0.929	4.08	4	5	7	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0038	1.000	1.027	1.000	0.981	4.02	4	4	5	1.003
	200	1.0000	0.0001	0.0033	1.000	1.044	1.000	0.984	4.02	4	4	5	1.004
	300	1.0000	0.0001	0.0033	1.000	1.014	1.000	0.984	4.02	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0220	1.000	1.085	1.000	0.895	4.11	4	5	7	1.003
	200	1.0000	0.0006	0.0241	1.001	1.110	1.000	0.888	4.13	4	5	7	1.002
	300	1.0000	0.0004	0.0234	1.000	1.086	1.000	0.891	4.12	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0127	1.000	1.060	1.000	0.939	4.06	4	5	6	1.002
	200	1.0000	0.0003	0.0124	1.000	1.052	1.000	0.942	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0141	1.000	1.054	1.000	0.933	4.07	4	5	7	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0033	1.000	1.018	1.000	0.984	4.02	4	4	5	1.001
	200	1.0000	0.0001	0.0026	1.000	1.014	1.000	0.987	4.01	4	4	5	1.000
	300	1.0000	0.0001	0.0032	1.000	1.012	1.000	0.985	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 103: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9935	0.0020	0.0374	1.008	1.219	0.979	0.815	4.17	4	5	7	1.016
	200	0.9903	0.0012	0.0454	1.011	1.369	0.968	0.774	4.20	4	5	8	1.023
	300	0.9891	0.0009	0.0497	1.014	1.416	0.963	0.754	4.22	4	5	8	1.027
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9901	0.0012	0.0230	1.006	1.178	0.969	0.867	4.08	4	5	7	1.012
	200	0.9869	0.0007	0.0288	1.008	1.303	0.959	0.833	4.09	4	5	7	1.020
	300	0.9845	0.0006	0.0325	1.010	1.336	0.950	0.810	4.11	4	5	7	1.021
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9785	0.0004	0.0080	1.005	1.175	0.939	0.904	3.95	3	4	6	1.007
	200	0.9710	0.0002	0.0093	1.006	1.252	0.918	0.880	3.93	3	4	5	1.008
	300	0.9650	0.0002	0.0126	1.008	1.314	0.899	0.846	3.92	3	5	7	1.012
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9935	0.0019	0.0349	1.007	1.194	0.979	0.826	4.16	4	5	7	1.003
	200	0.9903	0.0011	0.0419	1.010	1.300	0.968	0.787	4.18	4	5	8	1.005
	300	0.9891	0.0008	0.0457	1.012	1.360	0.963	0.770	4.20	4	5	8	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9901	0.0011	0.0213	1.005	1.151	0.969	0.874	4.07	4	5	7	1.003
	200	0.9869	0.0007	0.0262	1.007	1.245	0.959	0.843	4.08	4	5	7	1.006
	300	0.9845	0.0005	0.0295	1.009	1.282	0.950	0.823	4.09	4	5	7	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9785	0.0004	0.0070	1.004	1.164	0.939	0.908	3.95	3	4	6	1.003
	200	0.9710	0.0002	0.0083	1.006	1.235	0.918	0.884	3.92	3	4	5	1.004
	300	0.9650	0.0002	0.0111	1.008	1.288	0.899	0.853	3.91	3	4	7	1.005

Notes: See notes to Table 1.

Table 104: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0253	1.002	1.159	1.000	0.880	4.13	4	5	6	1.011
	200	1.0000	0.0007	0.0256	1.002	1.203	1.000	0.880	4.13	4	5	7	1.010
	300	1.0000	0.0006	0.0319	1.003	1.272	1.000	0.855	4.17	4	5	7	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0127	1.001	1.103	1.000	0.938	4.06	4	5	6	1.005
	200	1.0000	0.0003	0.0135	1.001	1.133	1.000	0.935	4.07	4	5	6	1.007
	300	1.0000	0.0003	0.0183	1.001	1.173	1.000	0.916	4.10	4	5	7	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0027	1.000	1.032	1.000	0.987	4.01	4	4	5	1.003
	200	1.0000	0.0001	0.0032	1.000	1.031	1.000	0.984	4.02	4	4	5	1.002
	300	1.0000	0.0001	0.0053	1.000	1.068	1.000	0.975	4.03	4	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0235	1.001	1.136	1.000	0.888	4.12	4	5	6	1.002
	200	1.0000	0.0006	0.0240	1.002	1.153	1.000	0.887	4.12	4	5	7	1.001
	300	1.0000	0.0005	0.0294	1.002	1.215	1.000	0.867	4.15	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0119	1.001	1.090	1.000	0.942	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0123	1.001	1.090	1.000	0.941	4.06	4	5	6	1.001
	300	1.0000	0.0003	0.0171	1.001	1.143	1.000	0.922	4.09	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0021	1.000	1.020	1.000	0.990	4.01	4	4	5	1.000
	200	1.0000	0.0001	0.0028	1.000	1.023	1.000	0.986	4.01	4	4	5	1.000
	300	1.0000	0.0001	0.0048	1.000	1.056	1.000	0.978	4.02	4	4	6	1.001

Notes: See notes to Table 1.

Table 105: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0229	1.001	1.161	1.000	0.893	4.12	4	5	7	1.011
	200	1.0000	0.0006	0.0233	1.001	1.155	1.000	0.893	4.12	4	5	7	1.009
	300	1.0000	0.0005	0.0270	1.001	1.217	1.000	0.873	4.14	4	5	6	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0126	1.001	1.101	1.000	0.941	4.06	4	5	6	1.007
	200	1.0000	0.0003	0.0128	1.001	1.094	1.000	0.938	4.07	4	5	6	1.006
	300	1.0000	0.0002	0.0139	1.001	1.132	1.000	0.932	4.07	4	5	6	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0035	1.000	1.042	1.000	0.984	4.02	4	4	6	1.003
	200	1.0000	0.0001	0.0027	1.000	1.026	1.000	0.987	4.01	4	4	5	1.002
	300	1.0000	0.0001	0.0034	1.000	1.042	1.000	0.984	4.02	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0210	1.001	1.127	1.000	0.902	4.11	4	5	7	1.002
	200	1.0000	0.0006	0.0217	1.001	1.123	1.000	0.900	4.11	4	5	7	1.001
	300	1.0000	0.0004	0.0256	1.001	1.188	1.000	0.880	4.13	4	5	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0116	1.000	1.084	1.000	0.946	4.06	4	5	6	1.002
	200	1.0000	0.0003	0.0119	1.000	1.076	1.000	0.942	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0127	1.000	1.105	1.000	0.938	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0030	1.000	1.028	1.000	0.986	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0023	1.000	1.015	1.000	0.989	4.01	4	4	5	1.000
	300	1.0000	0.0001	0.0031	1.000	1.036	1.000	0.985	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 106: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8804	0.0022	0.0478	1.014	1.330	0.732	0.600	3.73	2	5	7	1.014
	200	0.8300	0.0012	0.0577	1.021	1.518	0.646	0.520	3.55	1	5	8	1.019
	300	0.8348	0.0009	0.0658	1.023	1.497	0.638	0.507	3.61	1	5	8	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8490	0.0013	0.0302	1.014	1.294	0.674	0.596	3.52	1	5	7	1.008
	200	0.7916	0.0007	0.0372	1.022	1.487	0.589	0.517	3.30	1	5	7	1.011
	300	0.7954	0.0005	0.0426	1.022	1.424	0.574	0.497	3.34	1	5	8	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7604	0.0005	0.0125	1.021	1.382	0.536	0.511	3.09	0	4	6	1.005
	200	0.7005	0.0003	0.0165	1.029	1.544	0.465	0.440	2.86	0	4	6	1.007
	300	0.6954	0.0002	0.0180	1.027	1.530	0.434	0.415	2.84	0	4	7	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8804	0.0020	0.0458	1.014	1.300	0.732	0.605	3.72	1	5	7	1.004
	200	0.8300	0.0011	0.0544	1.020	1.481	0.646	0.530	3.54	1	5	8	1.003
	300	0.8348	0.0009	0.0630	1.022	1.464	0.638	0.513	3.59	1	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8490	0.0012	0.0289	1.014	1.283	0.674	0.600	3.51	1	5	7	1.002
	200	0.7916	0.0006	0.0353	1.021	1.463	0.589	0.523	3.29	1	5	7	1.002
	300	0.7954	0.0005	0.0411	1.021	1.406	0.574	0.501	3.34	1	5	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7604	0.0004	0.0116	1.021	1.374	0.536	0.514	3.08	0	4	6	1.001
	200	0.7005	0.0002	0.0152	1.028	1.528	0.465	0.442	2.85	0	4	6	1.002
	300	0.6954	0.0002	0.0175	1.027	1.524	0.434	0.416	2.83	0	4	7	1.001

Notes: See notes to Table 1.

Table 107: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0265	1.002	1.206	1.000	0.876	4.14	4	5	7	1.008
	200	0.9999	0.0007	0.0279	1.002	1.250	1.000	0.869	4.14	4	5	6	1.009
	300	1.0000	0.0005	0.0267	1.003	1.292	1.000	0.877	4.14	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0143	1.001	1.131	1.000	0.932	4.07	4	5	6	1.005
	200	0.9998	0.0004	0.0143	1.001	1.162	1.000	0.932	4.07	4	5	6	1.007
	300	1.0000	0.0003	0.0147	1.002	1.194	1.000	0.930	4.08	4	5	6	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0002	0.0033	1.000	1.040	1.000	0.984	4.02	4	4	6	1.000
	200	0.9994	0.0001	0.0031	1.000	1.058	0.999	0.984	4.01	4	4	6	1.001
	300	0.9999	0.0001	0.0042	1.001	1.063	1.000	0.979	4.02	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0249	1.002	1.181	1.000	0.883	4.13	4	5	7	1.000
	200	0.9999	0.0007	0.0261	1.002	1.217	1.000	0.878	4.13	4	5	6	1.000
	300	1.0000	0.0004	0.0253	1.002	1.265	1.000	0.883	4.13	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0134	1.001	1.118	1.000	0.937	4.07	4	5	6	1.000
	200	0.9998	0.0003	0.0131	1.001	1.139	1.000	0.938	4.07	4	5	6	1.001
	300	1.0000	0.0002	0.0137	1.002	1.177	1.000	0.934	4.07	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0002	0.0033	1.000	1.040	1.000	0.984	4.02	4	4	6	1.000
	200	0.9994	0.0001	0.0030	1.000	1.054	0.999	0.984	4.01	4	4	6	1.001
	300	0.9999	0.0001	0.0041	1.001	1.059	1.000	0.980	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 108: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	$\text{rRMSE}_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0215	1.001	1.182	1.000	0.899	4.11	4	5	7	1.007
	200	1.0000	0.0006	0.0226	1.001	1.226	1.000	0.896	4.12	4	5	7	1.005
	300	1.0000	0.0005	0.0260	1.001	1.236	1.000	0.878	4.13	4	5	6	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0130	1.001	1.129	1.000	0.938	4.07	4	5	6	1.005
	200	1.0000	0.0003	0.0113	1.001	1.132	1.000	0.947	4.06	4	5	6	1.003
	300	1.0000	0.0002	0.0144	1.001	1.153	1.000	0.931	4.07	4	5	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0034	1.000	1.053	1.000	0.983	4.02	4	4	5	1.002
	200	1.0000	0.0001	0.0024	1.000	1.037	1.000	0.989	4.01	4	4	6	1.001
	300	1.0000	0.0001	0.0040	1.000	1.054	1.000	0.981	4.02	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0204	1.001	1.168	1.000	0.904	4.11	4	5	7	1.001
	200	1.0000	0.0006	0.0218	1.001	1.208	1.000	0.900	4.11	4	5	7	1.001
	300	1.0000	0.0004	0.0253	1.001	1.224	1.000	0.881	4.13	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0122	1.001	1.117	1.000	0.942	4.06	4	5	6	1.001
	200	1.0000	0.0003	0.0109	1.001	1.124	1.000	0.949	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0141	1.001	1.145	1.000	0.932	4.07	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0031	1.000	1.046	1.000	0.985	4.02	4	4	5	1.000
	200	1.0000	0.0001	0.0022	1.000	1.032	1.000	0.990	4.01	4	4	6	1.000
	300	1.0000	0.0001	0.0039	1.000	1.052	1.000	0.981	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 109: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0029	0.0515	1.009	1.283	1.000	0.782	4.28	4	5	9	1.025
	200	0.9996	0.0015	0.0544	1.010	1.249	0.999	0.769	4.30	4	6	9	1.024
	300	0.9995	0.0012	0.0635	1.011	1.288	0.998	0.734	4.35	4	6	9	1.020
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0018	0.0318	1.006	1.192	0.999	0.856	4.17	4	5	9	1.017
	200	0.9996	0.0009	0.0328	1.006	1.159	0.999	0.851	4.17	4	5	8	1.014
	300	0.9995	0.0007	0.0404	1.007	1.207	0.998	0.824	4.22	4	5	8	1.014
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0005	0.0101	1.002	1.076	0.998	0.950	4.05	4	4	8	1.007
	200	0.9994	0.0003	0.0113	1.003	1.086	0.998	0.944	4.06	4	5	7	1.005
	300	0.9989	0.0002	0.0123	1.003	1.122	0.996	0.938	4.06	4	5	7	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0027	0.0480	1.007	1.182	1.000	0.795	4.26	4	5	9	1.006
	200	0.9996	0.0014	0.0507	1.008	1.183	0.999	0.786	4.28	4	6	9	1.004
	300	0.9995	0.0011	0.0600	1.009	1.224	0.998	0.747	4.33	4	6	9	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0016	0.0293	1.004	1.135	0.999	0.867	4.15	4	5	9	1.004
	200	0.9996	0.0008	0.0306	1.005	1.119	0.999	0.862	4.16	4	5	8	1.003
	300	0.9995	0.0007	0.0381	1.006	1.161	0.998	0.834	4.20	4	5	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0005	0.0090	1.002	1.049	0.998	0.956	4.04	4	4	8	1.002
	200	0.9994	0.0003	0.0105	1.002	1.062	0.998	0.948	4.05	4	4	7	1.001
	300	0.9989	0.0002	0.0116	1.002	1.111	0.996	0.941	4.06	4	5	7	1.002

Notes: See notes to Table 1.

Table 110: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0022	0.0399	1.002	1.145	1.000	0.821	4.21	4	5	7	1.019
	200	1.0000	0.0012	0.0430	1.002	1.190	1.000	0.809	4.23	4	5	7	1.013
	300	1.0000	0.0007	0.0412	1.002	1.195	1.000	0.814	4.22	4	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0229	1.001	1.103	1.000	0.893	4.12	4	5	7	1.013
	200	1.0000	0.0007	0.0270	1.001	1.136	1.000	0.876	4.14	4	5	7	1.012
	300	1.0000	0.0004	0.0236	1.001	1.128	1.000	0.890	4.12	4	5	7	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0004	0.0068	1.000	1.030	1.000	0.968	4.03	4	4	6	1.003
	200	1.0000	0.0002	0.0077	1.000	1.041	1.000	0.963	4.04	4	4	6	1.003
	300	1.0000	0.0001	0.0075	1.000	1.066	1.000	0.964	4.04	4	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0020	0.0369	1.001	1.098	1.000	0.834	4.19	4	5	7	1.003
	200	1.0000	0.0011	0.0408	1.001	1.141	1.000	0.817	4.22	4	5	7	1.002
	300	1.0000	0.0007	0.0400	1.002	1.165	1.000	0.818	4.21	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0207	1.001	1.064	1.000	0.903	4.11	4	5	7	1.002
	200	1.0000	0.0007	0.0251	1.001	1.092	1.000	0.884	4.13	4	5	7	1.002
	300	1.0000	0.0004	0.0231	1.001	1.113	1.000	0.892	4.12	4	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0062	1.000	1.021	1.000	0.971	4.03	4	4	6	1.000
	200	1.0000	0.0002	0.0072	1.000	1.029	1.000	0.966	4.04	4	4	6	1.000
	300	1.0000	0.0001	0.0069	1.000	1.042	1.000	0.967	4.04	4	4	6	1.001

Notes: See notes to Table 1.

Table 111: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0018	0.0330	1.001	1.123	1.000	0.850	4.17	4	5	7	1.009
	200	1.0000	0.0011	0.0400	1.001	1.142	1.000	0.819	4.21	4	5	7	1.011
	300	1.0000	0.0008	0.0424	1.001	1.188	1.000	0.807	4.22	4	5	8	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0187	1.000	1.087	1.000	0.913	4.10	4	5	7	1.006
	200	1.0000	0.0006	0.0216	1.001	1.076	1.000	0.898	4.11	4	5	7	1.004
	300	1.0000	0.0004	0.0232	1.001	1.118	1.000	0.891	4.12	4	5	7	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0055	1.000	1.031	1.000	0.973	4.03	4	4	5	1.003
	200	1.0000	0.0002	0.0076	1.000	1.029	1.000	0.963	4.04	4	4	6	1.001
	300	1.0000	0.0001	0.0073	1.000	1.045	1.000	0.964	4.04	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0017	0.0318	1.001	1.102	1.000	0.856	4.17	4	5	7	1.003
	200	1.0000	0.0010	0.0381	1.001	1.110	1.000	0.828	4.20	4	5	7	1.000
	300	1.0000	0.0007	0.0409	1.001	1.152	1.000	0.814	4.21	4	5	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0177	1.000	1.061	1.000	0.918	4.09	4	5	7	1.001
	200	1.0000	0.0005	0.0209	1.001	1.064	1.000	0.902	4.11	4	5	7	1.000
	300	1.0000	0.0004	0.0221	1.001	1.092	1.000	0.897	4.11	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0050	1.000	1.018	1.000	0.975	4.03	4	4	5	1.000
	200	1.0000	0.0002	0.0074	1.000	1.026	1.000	0.964	4.04	4	4	6	1.000
	300	1.0000	0.0001	0.0069	1.000	1.031	1.000	0.966	4.04	4	4	6	1.000

Notes: See notes to Table 1.

Table 112: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9940	0.0023	0.0420	1.008	1.249	0.980	0.797	4.20	4	5	8	1.021
	200	0.9910	0.0013	0.0493	1.009	1.263	0.969	0.763	4.23	4	5	8	1.018
	300	0.9895	0.0010	0.0544	1.013	1.339	0.964	0.744	4.25	4	5	10	1.020
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9909	0.0013	0.0246	1.006	1.194	0.971	0.861	4.09	4	5	7	1.014
	200	0.9876	0.0008	0.0293	1.007	1.213	0.960	0.832	4.10	4	5	8	1.014
	300	0.9840	0.0006	0.0323	1.009	1.261	0.949	0.814	4.10	4	5	9	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9785	0.0004	0.0071	1.004	1.157	0.934	0.900	3.95	3	4	6	1.006
	200	0.9708	0.0002	0.0096	1.006	1.226	0.918	0.876	3.93	3	4	6	1.006
	300	0.9679	0.0002	0.0104	1.006	1.237	0.906	0.863	3.92	3	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9940	0.0021	0.0386	1.007	1.205	0.980	0.810	4.18	4	5	8	1.004
	200	0.9910	0.0013	0.0465	1.008	1.223	0.969	0.774	4.21	4	5	8	1.003
	300	0.9895	0.0009	0.0512	1.011	1.288	0.964	0.757	4.23	4	5	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9909	0.0012	0.0223	1.005	1.161	0.971	0.872	4.08	4	5	7	1.003
	200	0.9876	0.0007	0.0271	1.006	1.172	0.960	0.841	4.09	4	5	7	1.003
	300	0.9840	0.0005	0.0305	1.008	1.236	0.949	0.822	4.10	4	5	9	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9785	0.0003	0.0060	1.004	1.138	0.934	0.905	3.94	3	4	5	1.001
	200	0.9708	0.0002	0.0086	1.005	1.209	0.918	0.879	3.93	3	4	6	1.001
	300	0.9679	0.0002	0.0099	1.006	1.225	0.906	0.865	3.92	3	4	6	1.001

Notes: See notes to Table 1.

Table 113: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0019	0.0337	1.002	1.201	1.000	0.850	4.18	4	5	8	1.016
	200	1.0000	0.0009	0.0322	1.002	1.205	1.000	0.852	4.17	4	5	7	1.011
	300	1.0000	0.0007	0.0387	1.002	1.241	1.000	0.827	4.21	4	5	8	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0187	1.001	1.127	1.000	0.913	4.10	4	5	6	1.009
	200	1.0000	0.0005	0.0177	1.001	1.130	1.000	0.918	4.09	4	5	6	1.007
	300	1.0000	0.0004	0.0227	1.002	1.166	1.000	0.893	4.12	4	5	7	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0060	1.001	1.045	1.000	0.971	4.03	4	4	6	1.003
	200	1.0000	0.0001	0.0050	1.000	1.055	1.000	0.977	4.03	4	4	6	1.005
	300	1.0000	0.0001	0.0054	1.000	1.044	1.000	0.974	4.03	4	4	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0017	0.0311	1.002	1.154	1.000	0.862	4.17	4	5	8	1.002
	200	1.0000	0.0008	0.0306	1.002	1.170	1.000	0.859	4.16	4	5	7	1.003
	300	1.0000	0.0007	0.0369	1.002	1.194	1.000	0.835	4.20	4	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0171	1.001	1.098	1.000	0.921	4.09	4	5	6	1.001
	200	1.0000	0.0004	0.0166	1.001	1.109	1.000	0.923	4.09	4	5	6	1.002
	300	1.0000	0.0004	0.0214	1.001	1.129	1.000	0.899	4.11	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0056	1.000	1.036	1.000	0.973	4.03	4	4	6	1.001
	200	1.0000	0.0001	0.0043	1.000	1.040	1.000	0.980	4.02	4	4	6	1.001
	300	1.0000	0.0001	0.0052	1.000	1.035	1.000	0.975	4.03	4	4	7	1.000

Notes: See notes to Table 1.

Table 114: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0017	0.0307	1.001	1.157	1.000	0.859	4.16	4	5	7	1.009
	200	1.0000	0.0009	0.0356	1.001	1.192	1.000	0.837	4.19	4	5	7	1.007
	300	1.0000	0.0006	0.0355	1.001	1.215	1.000	0.836	4.18	4	5	7	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0154	1.001	1.090	1.000	0.927	4.08	4	5	6	1.005
	200	1.0000	0.0005	0.0208	1.001	1.127	1.000	0.902	4.11	4	5	7	1.005
	300	1.0000	0.0003	0.0199	1.001	1.133	1.000	0.907	4.10	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0041	1.000	1.029	1.000	0.980	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0044	1.000	1.027	1.000	0.979	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0055	1.000	1.046	1.000	0.973	4.03	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0289	1.001	1.123	1.000	0.866	4.15	4	5	7	1.000
	200	1.0000	0.0009	0.0343	1.001	1.168	1.000	0.842	4.18	4	5	7	1.000
	300	1.0000	0.0006	0.0343	1.001	1.186	1.000	0.841	4.18	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0144	1.001	1.070	1.000	0.932	4.07	4	5	6	1.000
	200	1.0000	0.0005	0.0200	1.001	1.109	1.000	0.906	4.10	4	5	7	1.000
	300	1.0000	0.0003	0.0195	1.001	1.126	1.000	0.909	4.10	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0038	1.000	1.022	1.000	0.982	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0044	1.000	1.027	1.000	0.979	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0052	1.000	1.040	1.000	0.975	4.03	4	4	6	1.000

Notes: See notes to Table 1.

Table 115: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8833	0.0019	0.0427	1.015	1.313	0.732	0.617	3.71	2	5	7	1.009
	200	0.8398	0.0012	0.0570	1.021	1.430	0.665	0.533	3.60	1	5	7	1.011
	300	0.8339	0.0009	0.0659	1.023	1.448	0.644	0.511	3.60	1	5	8	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8501	0.0011	0.0266	1.014	1.281	0.671	0.611	3.50	1	5	7	1.006
	200	0.8030	0.0008	0.0392	1.022	1.415	0.605	0.525	3.36	1	5	7	1.007
	300	0.7984	0.0005	0.0403	1.021	1.387	0.582	0.509	3.34	1	5	7	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7613	0.0004	0.0110	1.020	1.379	0.535	0.518	3.08	0	4	6	1.005
	200	0.7100	0.0002	0.0141	1.027	1.442	0.463	0.441	2.89	0	4	7	1.003
	300	0.7065	0.0002	0.0144	1.026	1.419	0.439	0.421	2.87	0	4	6	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8833	0.0018	0.0411	1.014	1.299	0.732	0.623	3.71	2	5	7	1.002
	200	0.8396	0.0012	0.0552	1.020	1.406	0.665	0.540	3.59	1	5	7	1.001
	300	0.8339	0.0009	0.0636	1.022	1.403	0.644	0.516	3.59	1	5	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8501	0.0010	0.0257	1.014	1.274	0.671	0.614	3.50	1	5	7	1.002
	200	0.8030	0.0007	0.0377	1.021	1.396	0.605	0.529	3.36	1	5	7	1.001
	300	0.7984	0.0005	0.0389	1.020	1.365	0.582	0.512	3.34	1	5	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7613	0.0003	0.0100	1.019	1.366	0.535	0.521	3.08	0	4	6	1.001
	200	0.7100	0.0002	0.0135	1.027	1.435	0.463	0.442	2.89	0	4	7	1.001
	300	0.7065	0.0001	0.0136	1.026	1.410	0.439	0.424	2.87	0	4	6	1.001

Notes: See notes to Table 1.

Table 116: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0292	1.003	1.232	1.000	0.864	4.15	4	5	7	1.006
	200	1.0000	0.0009	0.0322	1.003	1.228	1.000	0.851	4.17	4	5	7	1.005
	300	0.9998	0.0006	0.0321	1.003	1.267	0.999	0.852	4.17	4	5	7	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0163	1.002	1.150	1.000	0.924	4.08	4	5	7	1.005
	200	1.0000	0.0005	0.0175	1.002	1.148	1.000	0.917	4.09	4	5	7	1.002
	300	0.9998	0.0003	0.0170	1.002	1.168	0.999	0.918	4.09	4	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0002	0.0040	1.000	1.056	0.999	0.980	4.02	4	4	6	1.002
	200	0.9993	0.0001	0.0047	1.001	1.055	0.997	0.974	4.02	4	4	6	1.001
	300	0.9995	0.0001	0.0051	1.001	1.071	0.998	0.973	4.02	4	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0281	1.002	1.213	1.000	0.869	4.15	4	5	7	1.001
	200	1.0000	0.0008	0.0313	1.003	1.213	1.000	0.855	4.16	4	5	7	1.000
	300	0.9998	0.0005	0.0312	1.003	1.252	0.999	0.856	4.16	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0154	1.001	1.135	1.000	0.928	4.08	4	5	7	1.000
	200	1.0000	0.0004	0.0171	1.002	1.137	1.000	0.919	4.09	4	5	7	1.000
	300	0.9998	0.0003	0.0165	1.002	1.159	0.999	0.920	4.08	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0002	0.0038	1.000	1.047	0.999	0.981	4.02	4	4	6	1.001
	200	0.9993	0.0001	0.0045	1.001	1.049	0.997	0.975	4.02	4	4	6	1.000
	300	0.9995	0.0001	0.0048	1.001	1.060	0.998	0.975	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 117: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0276	1.001	1.219	1.000	0.873	4.14	4	5	7	1.006
	200	1.0000	0.0007	0.0268	1.001	1.206	1.000	0.877	4.14	4	5	6	1.005
	300	1.0000	0.0006	0.0340	1.002	1.298	1.000	0.843	4.18	4	5	7	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0139	1.001	1.136	1.000	0.935	4.07	4	5	6	1.004
	200	1.0000	0.0004	0.0138	1.001	1.124	1.000	0.933	4.07	4	5	6	1.002
	300	1.0000	0.0003	0.0178	1.001	1.192	1.000	0.915	4.09	4	5	6	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0037	1.000	1.043	1.000	0.982	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0041	1.000	1.047	1.000	0.980	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0046	1.000	1.055	1.000	0.977	4.02	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0266	1.001	1.201	1.000	0.878	4.14	4	5	7	1.001
	200	1.0000	0.0007	0.0260	1.001	1.193	1.000	0.880	4.14	4	5	6	1.000
	300	1.0000	0.0006	0.0329	1.002	1.274	1.000	0.847	4.17	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0133	1.001	1.122	1.000	0.937	4.07	4	5	6	1.001
	200	1.0000	0.0003	0.0134	1.001	1.117	1.000	0.935	4.07	4	5	6	1.000
	300	1.0000	0.0003	0.0169	1.001	1.173	1.000	0.919	4.09	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0034	1.000	1.034	1.000	0.984	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0041	1.000	1.047	1.000	0.980	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0045	1.000	1.051	1.000	0.978	4.02	4	4	5	1.000

Notes: See notes to Table 1.

Table 118: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0019	0.0284	1.007	1.565	1.000	0.887	4.18	4	5	15	1.021
	200	0.9999	0.0008	0.0260	1.007	1.655	1.000	0.896	4.16	4	5	18	1.021
	300	0.9998	0.0006	0.0288	1.006	1.616	0.999	0.878	4.17	4	5	20	1.018
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0009	0.0153	1.005	1.398	1.000	0.938	4.09	4	5	11	1.016
	200	0.9998	0.0004	0.0139	1.004	1.417	0.999	0.939	4.08	4	5	11	1.012
	300	0.9996	0.0003	0.0174	1.004	1.418	0.999	0.923	4.10	4	5	15	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0002	0.0044	1.002	1.166	0.999	0.979	4.02	4	4	7	1.005
	200	0.9995	0.0001	0.0039	1.002	1.275	0.998	0.980	4.02	4	4	6	1.005
	300	0.9989	0.0001	0.0050	1.002	1.151	0.996	0.973	4.02	4	4	7	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0017	0.0252	1.005	1.344	1.000	0.901	4.16	4	5	15	1.005
	200	0.9999	0.0007	0.0226	1.005	1.448	1.000	0.909	4.14	4	5	18	1.003
	300	0.9998	0.0005	0.0254	1.004	1.487	0.999	0.890	4.15	4	5	20	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0008	0.0128	1.003	1.191	1.000	0.949	4.08	4	5	11	1.003
	200	0.9998	0.0004	0.0121	1.003	1.322	0.999	0.947	4.07	4	5	11	1.003
	300	0.9996	0.0003	0.0153	1.003	1.348	0.999	0.930	4.08	4	5	15	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0002	0.0036	1.001	1.099	0.999	0.983	4.02	4	4	7	1.002
	200	0.9995	0.0001	0.0031	1.001	1.199	0.998	0.984	4.01	4	4	6	1.002
	300	0.9989	0.0001	0.0039	1.001	1.089	0.996	0.978	4.02	4	4	7	1.000

Notes: See notes to Table 1.

Table 119: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0168	1.001	1.292	1.000	0.932	4.10	4	5	15	1.009
	200	1.0000	0.0006	0.0158	1.001	1.530	1.000	0.933	4.12	4	5	67	1.008
	300	1.0000	0.0004	0.0177	1.001	1.360	1.000	0.927	4.12	4	5	48	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0078	1.000	1.151	1.000	0.968	4.05	4	4	10	1.003
	200	1.0000	0.0003	0.0090	1.000	1.309	1.000	0.960	4.07	4	4	44	1.003
	300	1.0000	0.0002	0.0101	1.001	1.199	1.000	0.956	4.07	4	4	34	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0018	1.000	1.058	1.000	0.992	4.01	4	4	6	1.002
	200	1.0000	0.0001	0.0023	1.000	1.110	1.000	0.991	4.02	4	4	18	1.001
	300	1.0000	0.0001	0.0025	1.000	1.051	1.000	0.989	4.02	4	4	16	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0152	1.001	1.188	1.000	0.939	4.10	4	5	15	1.001
	200	1.0000	0.0006	0.0145	1.001	1.449	1.000	0.939	4.12	4	5	67	1.001
	300	1.0000	0.0004	0.0162	1.001	1.261	1.000	0.934	4.11	4	5	48	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0075	1.000	1.117	1.000	0.969	4.04	4	4	10	1.001
	200	1.0000	0.0003	0.0087	1.000	1.303	1.000	0.962	4.07	4	4	44	1.001
	300	1.0000	0.0002	0.0094	1.000	1.145	1.000	0.960	4.06	4	4	34	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0016	1.000	1.037	1.000	0.993	4.01	4	4	6	1.001
	200	1.0000	0.0001	0.0023	1.000	1.110	1.000	0.991	4.02	4	4	18	1.001
	300	1.0000	0.0001	0.0023	1.000	1.035	1.000	0.990	4.02	4	4	16	1.000

Notes: See notes to Table 1.

Table 120: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0017	0.0208	1.001	1.392	1.000	0.923	4.16	4	5	35	1.011
	200	1.0000	0.0007	0.0176	1.001	1.481	1.000	0.933	4.13	4	5	35	1.010
	300	1.0000	0.0003	0.0161	1.000	1.326	1.000	0.933	4.10	4	5	18	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0010	0.0125	1.000	1.219	1.000	0.955	4.10	4	4	23	1.008
	200	1.0000	0.0003	0.0091	1.000	1.190	1.000	0.966	4.06	4	4	24	1.005
	300	1.0000	0.0002	0.0086	1.000	1.234	1.000	0.963	4.05	4	4	11	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0027	1.000	1.042	1.000	0.988	4.02	4	4	8	1.002
	200	1.0000	0.0001	0.0022	1.000	1.057	1.000	0.991	4.01	4	4	10	1.002
	300	1.0000	0.0000	0.0018	1.000	1.033	1.000	0.991	4.01	4	4	5	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0185	1.000	1.259	1.000	0.931	4.15	4	5	35	1.001
	200	1.0000	0.0006	0.0159	1.000	1.253	1.000	0.940	4.12	4	5	35	1.001
	300	1.0000	0.0003	0.0151	1.000	1.206	1.000	0.938	4.09	4	5	18	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0107	1.000	1.128	1.000	0.961	4.08	4	4	23	1.001
	200	1.0000	0.0003	0.0083	1.000	1.086	1.000	0.969	4.06	4	4	24	1.001
	300	1.0000	0.0002	0.0080	1.000	1.143	1.000	0.966	4.04	4	4	11	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0024	1.000	1.025	1.000	0.990	4.01	4	4	8	1.000
	200	1.0000	0.0001	0.0019	1.000	1.035	1.000	0.992	4.01	4	4	10	1.001
	300	1.0000	0.0000	0.0018	1.000	1.033	1.000	0.991	4.01	4	4	5	1.000

Notes: See notes to Table 1.

Table 121: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9945	0.0016	0.0242	1.006	1.588	0.982	0.881	4.13	4	5	20	1.013
	200	0.9918	0.0014	0.0299	1.010	8.056	0.975	0.865	4.25	4	5	179	1.018
	300	0.9875	0.0008	0.0324	1.011	2.074	0.964	0.847	4.18	4	5	43	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9914	0.0009	0.0146	1.005	1.438	0.973	0.911	4.06	4	5	17	1.011
	200	0.9881	0.0008	0.0176	1.010	23.335	0.965	0.895	4.10	4	5	93	1.008
	300	0.9831	0.0004	0.0197	1.009	1.795	0.954	0.879	4.07	4	5	31	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9786	0.0003	0.0055	1.004	1.267	0.936	0.915	3.95	3	4	9	1.004
	200	0.9716	0.0003	0.0063	1.005	1.437	0.920	0.898	3.95	3	4	62	1.003
	300	0.9685	0.0001	0.0077	1.007	1.541	0.914	0.885	3.92	3	4	14	1.008
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9945	0.0015	0.0225	1.005	1.444	0.982	0.888	4.12	4	5	19	1.003
	200	0.9918	0.0014	0.0271	1.009	8.004	0.975	0.875	4.23	4	5	179	1.003
	300	0.9875	0.0007	0.0308	1.010	1.986	0.964	0.852	4.17	4	5	43	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9914	0.0008	0.0129	1.004	1.298	0.973	0.919	4.05	4	5	17	1.002
	200	0.9881	0.0007	0.0163	1.010	23.329	0.965	0.900	4.10	4	5	93	1.002
	300	0.9831	0.0004	0.0183	1.008	1.686	0.954	0.885	4.06	4	5	31	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9786	0.0003	0.0049	1.004	1.219	0.936	0.917	3.94	3	4	9	1.001
	200	0.9716	0.0003	0.0059	1.005	1.404	0.920	0.899	3.95	3	4	62	1.001
	300	0.9685	0.0001	0.0064	1.006	1.378	0.914	0.892	3.91	3	4	14	1.002

Notes: See notes to Table 1.

Table 122: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0203	1.001	1.467	1.000	0.924	4.14	4	5	26	1.009
	200	1.0000	0.0006	0.0174	1.001	1.403	1.000	0.929	4.11	4	5	25	1.004
	300	1.0000	0.0006	0.0196	1.002	1.812	1.000	0.925	4.18	4	5	75	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0115	1.001	1.300	1.000	0.954	4.07	4	4	17	1.007
	200	1.0000	0.0003	0.0097	1.001	1.296	1.000	0.960	4.06	4	4	18	1.002
	300	1.0000	0.0003	0.0119	1.001	1.441	1.000	0.955	4.10	4	4	48	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0034	1.000	1.143	1.000	0.986	4.02	4	4	10	1.002
	200	1.0000	0.0001	0.0024	1.000	1.076	1.000	0.989	4.01	4	4	6	1.001
	300	1.0000	0.0001	0.0030	1.000	1.157	1.000	0.988	4.02	4	4	25	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0188	1.001	1.360	1.000	0.930	4.14	4	5	26	1.001
	200	1.0000	0.0006	0.0166	1.001	1.358	1.000	0.933	4.11	4	5	25	1.000
	300	1.0000	0.0006	0.0185	1.001	1.763	1.000	0.930	4.18	4	5	75	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0104	1.001	1.251	1.000	0.960	4.07	4	4	17	1.001
	200	1.0000	0.0003	0.0093	1.001	1.266	1.000	0.962	4.06	4	4	18	1.000
	300	1.0000	0.0003	0.0110	1.001	1.390	1.000	0.959	4.10	4	4	48	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0031	1.000	1.097	1.000	0.987	4.02	4	4	10	1.000
	200	1.0000	0.0001	0.0023	1.000	1.071	1.000	0.990	4.01	4	4	6	1.000
	300	1.0000	0.0001	0.0029	1.000	1.141	1.000	0.989	4.02	4	4	25	1.000

Notes: See notes to Table 1.

Table 123: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0186	1.001	1.433	1.000	0.927	4.14	4	5	28	1.006
	200	1.0000	0.0009	0.0181	1.001	1.845	1.000	0.930	4.18	4	5	71	1.006
	300	1.0000	0.0003	0.0140	1.001	1.364	1.000	0.941	4.09	4	5	17	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0104	1.000	1.295	1.000	0.959	4.08	4	4	22	1.003
	200	1.0000	0.0005	0.0104	1.000	1.568	1.000	0.961	4.10	4	4	56	1.003
	300	1.0000	0.0001	0.0068	1.000	1.210	1.000	0.970	4.04	4	4	13	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0031	1.000	1.125	1.000	0.988	4.02	4	4	10	1.001
	200	1.0000	0.0001	0.0030	1.000	1.109	1.000	0.989	4.03	4	4	31	1.001
	300	1.0000	0.0000	0.0017	1.000	1.088	1.000	0.992	4.01	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0173	1.001	1.369	1.000	0.932	4.13	4	5	28	1.001
	200	1.0000	0.0009	0.0171	1.001	1.772	1.000	0.935	4.17	4	5	71	1.001
	300	1.0000	0.0003	0.0135	1.001	1.292	1.000	0.944	4.08	4	5	17	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0097	1.000	1.276	1.000	0.962	4.07	4	4	22	1.001
	200	1.0000	0.0005	0.0098	1.000	1.502	1.000	0.963	4.10	4	4	56	1.000
	300	1.0000	0.0001	0.0065	1.000	1.167	1.000	0.971	4.04	4	4	13	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0029	1.000	1.120	1.000	0.989	4.02	4	4	10	1.000
	200	1.0000	0.0001	0.0029	1.000	1.099	1.000	0.989	4.03	4	4	31	1.000
	300	1.0000	0.0000	0.0016	1.000	1.071	1.000	0.993	4.01	4	4	6	1.000

Notes: See notes to Table 1.

Table 124: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8761	0.0016	0.0289	1.014	1.654	0.729	0.656	3.66	1	5	23	1.011
	200	0.8468	0.0009	0.0351	1.017	1.856	0.656	0.583	3.56	1	5	16	1.011
	300	0.8245	0.0007	0.0421	1.022	3.874	0.640	0.559	3.52	1	5	83	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8444	0.0009	0.0191	1.015	1.520	0.671	0.633	3.47	1	4	14	1.005
	200	0.8110	0.0005	0.0218	1.017	1.696	0.596	0.556	3.34	1	4	14	1.008
	300	0.7903	0.0004	0.0271	1.022	2.397	0.585	0.544	3.29	1	4	65	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7593	0.0003	0.0079	1.021	1.517	0.536	0.526	3.06	0	4	8	1.003
	200	0.7094	0.0001	0.0086	1.026	1.668	0.462	0.449	2.87	0	4	6	1.003
	300	0.6994	0.0002	0.0117	1.029	1.861	0.460	0.450	2.84	0	4	29	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8761	0.0016	0.0276	1.014	1.597	0.729	0.661	3.65	1	5	23	1.004
	200	0.8468	0.0008	0.0329	1.016	1.749	0.656	0.587	3.55	1	5	16	1.001
	300	0.8245	0.0007	0.0400	1.021	3.801	0.640	0.565	3.50	1	5	83	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8444	0.0009	0.0183	1.014	1.489	0.671	0.636	3.46	1	4	14	1.001
	200	0.8110	0.0004	0.0201	1.016	1.648	0.596	0.560	3.33	1	4	14	1.001
	300	0.7901	0.0004	0.0260	1.021	2.346	0.585	0.546	3.28	1	4	65	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7593	0.0003	0.0072	1.021	1.498	0.536	0.527	3.06	0	4	8	1.001
	200	0.7094	0.0001	0.0080	1.025	1.633	0.462	0.451	2.86	0	4	6	1.000
	300	0.6994	0.0001	0.0113	1.029	1.848	0.460	0.450	2.84	0	4	29	1.000

Notes: See notes to Table 1.

Table 125: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0171	1.001	1.371	1.000	0.933	4.11	4	5	15	1.004
	200	1.0000	0.0006	0.0178	1.002	1.504	1.000	0.928	4.11	4	5	16	1.009
	300	1.0000	0.0005	0.0198	1.002	1.761	1.000	0.925	4.16	4	5	43	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0093	1.001	1.256	1.000	0.965	4.06	4	4	11	1.001
	200	1.0000	0.0002	0.0086	1.001	1.302	1.000	0.962	4.05	4	4	9	1.002
	300	0.9998	0.0002	0.0102	1.001	1.412	1.000	0.960	4.07	4	4	29	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0028	1.000	1.128	1.000	0.988	4.02	4	4	7	1.001
	200	0.9998	0.0001	0.0022	1.000	1.123	0.999	0.989	4.01	4	4	7	1.001
	300	0.9996	0.0000	0.0015	1.000	1.037	0.999	0.994	4.01	4	4	11	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0164	1.001	1.351	1.000	0.936	4.10	4	5	15	1.000
	200	1.0000	0.0005	0.0165	1.002	1.394	1.000	0.934	4.10	4	5	16	1.001
	300	1.0000	0.0005	0.0187	1.002	1.553	1.000	0.927	4.15	4	5	43	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0091	1.001	1.251	1.000	0.966	4.06	4	4	11	1.000
	200	1.0000	0.0002	0.0084	1.001	1.276	1.000	0.963	4.05	4	4	9	1.001
	300	0.9998	0.0002	0.0096	1.001	1.326	1.000	0.962	4.07	4	4	29	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0028	1.000	1.128	1.000	0.988	4.02	4	4	7	1.001
	200	0.9998	0.0001	0.0021	1.000	1.108	0.999	0.990	4.01	4	4	7	1.000
	300	0.9996	0.0000	0.0015	1.000	1.037	0.999	0.994	4.01	4	4	11	1.000

Notes: See notes to Table 1.

Table 126: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0134	1.001	1.474	1.000	0.944	4.09	4	5	33	1.006
	200	1.0000	0.0005	0.0151	1.001	1.601	1.000	0.939	4.10	4	5	21	1.006
	300	1.0000	0.0004	0.0175	1.001	1.645	1.000	0.928	4.11	4	5	18	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0075	1.000	1.262	1.000	0.968	4.05	4	4	23	1.002
	200	1.0000	0.0003	0.0090	1.001	1.425	1.000	0.962	4.05	4	4	14	1.004
	300	1.0000	0.0002	0.0091	1.001	1.386	1.000	0.961	4.05	4	4	11	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0022	1.000	1.111	1.000	0.991	4.01	4	4	12	1.001
	200	1.0000	0.0000	0.0015	1.000	1.089	1.000	0.993	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0022	1.000	1.108	1.000	0.990	4.01	4	4	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0125	1.001	1.384	1.000	0.948	4.08	4	5	33	1.001
	200	1.0000	0.0004	0.0139	1.001	1.420	1.000	0.941	4.08	4	5	14	1.001
	300	1.0000	0.0004	0.0171	1.001	1.568	1.000	0.930	4.11	4	5	17	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0071	1.000	1.229	1.000	0.970	4.05	4	4	23	1.000
	200	1.0000	0.0002	0.0082	1.000	1.309	1.000	0.963	4.04	4	4	7	1.001
	300	1.0000	0.0002	0.0087	1.000	1.321	1.000	0.963	4.05	4	4	10	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0020	1.000	1.081	1.000	0.992	4.01	4	4	12	1.000
	200	1.0000	0.0000	0.0015	1.000	1.089	1.000	0.993	4.01	4	4	5	1.000
	300	1.0000	0.0000	0.0020	1.000	1.097	1.000	0.991	4.01	4	4	7	1.000

Notes: See notes to Table 1.

Table 127: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9948	0.0019	0.0356	1.010	1.646	0.980	0.821	4.16	4	5	7	1.042
	200	0.9913	0.0011	0.0415	1.013	1.993	0.967	0.784	4.18	4	5	7	1.049
	300	0.9891	0.0008	0.0452	1.016	2.108	0.962	0.765	4.19	4	5	7	1.050
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9916	0.0012	0.0220	1.009	1.735	0.968	0.868	4.08	4	5	7	1.036
	200	0.9875	0.0007	0.0257	1.012	2.115	0.954	0.840	4.08	4	5	6	1.045
	300	0.9833	0.0005	0.0280	1.016	2.368	0.943	0.819	4.08	3	5	7	1.044
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9776	0.0004	0.0071	1.015	2.321	0.918	0.886	3.95	3	4	6	1.038
	200	0.9684	0.0002	0.0076	1.021	2.909	0.892	0.862	3.91	3	4	6	1.043
	300	0.9645	0.0001	0.0079	1.025	3.033	0.881	0.851	3.90	3	4	6	1.046
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9941	0.0017	0.0309	1.009	1.602	0.978	0.837	4.14	4	5	6	1.017
	200	0.9899	0.0009	0.0352	1.011	1.927	0.961	0.806	4.14	4	5	7	1.013
	300	0.9868	0.0007	0.0390	1.014	2.093	0.953	0.787	4.15	4	5	7	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9905	0.0010	0.0183	1.009	1.725	0.964	0.881	4.06	4	5	6	1.013
	200	0.9849	0.0005	0.0213	1.012	2.147	0.945	0.852	4.05	3.5	5	6	1.012
	300	0.9808	0.0004	0.0237	1.016	2.381	0.934	0.831	4.04	3	5	7	1.014
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9743	0.0003	0.0051	1.017	2.420	0.906	0.884	3.92	3	4	6	1.014
	200	0.9636	0.0002	0.0061	1.025	3.060	0.878	0.854	3.88	3	4	6	1.018
	300	0.9594	0.0001	0.0068	1.028	3.164	0.864	0.838	3.87	3	4	6	1.020

Notes: See notes to Table 1.

Table 128: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0267	1.002	1.269	1.000	0.878	4.14	4	5	7	1.019
	200	1.0000	0.0007	0.0285	1.002	1.315	1.000	0.866	4.15	4	5	7	1.019
	300	1.0000	0.0005	0.0288	1.002	1.359	1.000	0.866	4.15	4	5	6	1.018
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0145	1.001	1.157	1.000	0.931	4.07	4	5	6	1.008
	200	1.0000	0.0004	0.0161	1.001	1.209	1.000	0.923	4.08	4	5	7	1.011
	300	1.0000	0.0003	0.0162	1.001	1.250	1.000	0.923	4.08	4	5	6	1.014
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0034	1.000	1.051	1.000	0.983	4.02	4	4	5	1.002
	200	1.0000	0.0001	0.0042	1.000	1.074	1.000	0.980	4.02	4	4	7	1.004
	300	1.0000	0.0001	0.0051	1.000	1.118	1.000	0.976	4.03	4	4	6	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0235	1.001	1.181	1.000	0.893	4.12	4	5	7	1.002
	200	1.0000	0.0007	0.0252	1.001	1.191	1.000	0.881	4.13	4	5	7	1.003
	300	1.0000	0.0005	0.0260	1.001	1.245	1.000	0.879	4.13	4	5	6	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0131	1.001	1.106	1.000	0.938	4.07	4	5	6	1.001
	200	1.0000	0.0004	0.0139	1.001	1.116	1.000	0.934	4.07	4	5	7	1.000
	300	1.0000	0.0002	0.0142	1.001	1.173	1.000	0.933	4.07	4	5	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0030	1.000	1.035	1.000	0.985	4.02	4	4	5	1.000
	200	1.0000	0.0001	0.0035	1.000	1.039	1.000	0.984	4.02	4	4	7	1.001
	300	1.0000	0.0001	0.0043	1.000	1.076	1.000	0.979	4.02	4	4	6	1.002

Notes: See notes to Table 1.

Table 129: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0237	1.001	1.268	1.000	0.890	4.12	4	5	7	1.021
	200	1.0000	0.0007	0.0260	1.001	1.244	1.000	0.880	4.14	4	5	7	1.010
	300	1.0000	0.0004	0.0225	1.001	1.217	1.000	0.894	4.12	4	5	6	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0133	1.001	1.187	1.000	0.937	4.07	4	5	6	1.014
	200	1.0000	0.0004	0.0149	1.000	1.159	1.000	0.929	4.08	4	5	7	1.008
	300	1.0000	0.0002	0.0124	1.000	1.132	1.000	0.939	4.06	4	5	6	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0030	1.000	1.061	1.000	0.985	4.02	4	4	5	1.005
	200	1.0000	0.0001	0.0029	1.000	1.050	1.000	0.986	4.02	4	4	6	1.002
	300	1.0000	0.0000	0.0028	1.000	1.044	1.000	0.986	4.01	4	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0203	1.001	1.174	1.000	0.904	4.10	4	5	7	1.004
	200	1.0000	0.0007	0.0245	1.001	1.184	1.000	0.887	4.13	4	5	7	1.002
	300	1.0000	0.0004	0.0212	1.000	1.155	1.000	0.899	4.11	4	5	6	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0110	1.000	1.108	1.000	0.947	4.06	4	5	6	1.002
	200	1.0000	0.0004	0.0137	1.000	1.107	1.000	0.935	4.07	4	5	7	1.002
	300	1.0000	0.0002	0.0116	1.000	1.095	1.000	0.943	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0022	1.000	1.023	1.000	0.989	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0026	1.000	1.031	1.000	0.988	4.01	4	4	6	1.001
	300	1.0000	0.0000	0.0026	1.000	1.032	1.000	0.987	4.01	4	4	5	1.001

Notes: See notes to Table 1.

Table 130: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9274	0.0020	0.0395	1.026	2.352	0.775	0.647	3.91	2	5	7	1.035
	200	0.9000	0.0011	0.0473	1.035	2.901	0.707	0.574	3.82	2	5	7	1.029
	300	0.8833	0.0009	0.0580	1.043	3.128	0.657	0.517	3.80	2	5	8	1.026
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9024	0.0011	0.0218	1.030	2.558	0.709	0.645	3.71	2	5	7	1.024
	200	0.8694	0.0007	0.0283	1.040	3.117	0.631	0.556	3.61	2	5	6	1.020
	300	0.8498	0.0005	0.0372	1.050	3.394	0.592	0.511	3.56	2	5	6	1.021
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8284	0.0003	0.0077	1.049	3.362	0.552	0.536	3.35	1	4	6	1.019
	200	0.7831	0.0002	0.0097	1.063	3.991	0.458	0.442	3.17	1	4	6	1.012
	300	0.7613	0.0002	0.0139	1.074	4.231	0.435	0.414	3.10	1	4	6	1.014
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9265	0.0018	0.0343	1.025	2.290	0.772	0.665	3.88	2	5	7	1.007
	200	0.8993	0.0010	0.0428	1.034	2.839	0.705	0.586	3.80	2	5	7	1.005
	300	0.8826	0.0008	0.0542	1.042	3.067	0.656	0.526	3.77	2	5	8	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9015	0.0009	0.0190	1.029	2.525	0.706	0.651	3.69	2	5	7	1.008
	200	0.8690	0.0006	0.0253	1.039	3.074	0.631	0.564	3.59	2	5	6	1.005
	300	0.8489	0.0005	0.0340	1.049	3.355	0.590	0.519	3.54	2	5	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8271	0.0003	0.0063	1.049	3.352	0.549	0.538	3.33	1	4	6	1.007
	200	0.7821	0.0002	0.0087	1.063	3.986	0.457	0.443	3.16	1	4	5	1.004
	300	0.7595	0.0002	0.0127	1.074	4.223	0.429	0.411	3.09	1	4	6	1.002

Notes: See notes to Table 1.

Table 131: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0266	1.002	1.302	1.000	0.876	4.14	4	5	7	1.019
	200	1.0000	0.0007	0.0285	1.002	1.351	1.000	0.867	4.15	4	5	7	1.009
	300	1.0000	0.0005	0.0271	1.002	1.425	1.000	0.873	4.14	4	5	8	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0140	1.001	1.209	1.000	0.933	4.07	4	5	7	1.010
	200	1.0000	0.0004	0.0142	1.001	1.202	1.000	0.932	4.07	4	5	6	1.006
	300	1.0000	0.0002	0.0139	1.001	1.268	1.000	0.934	4.07	4	5	7	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0044	1.000	1.091	1.000	0.978	4.02	4	4	5	1.004
	200	1.0000	0.0001	0.0041	1.000	1.080	1.000	0.980	4.02	4	4	6	1.002
	300	0.9999	0.0001	0.0039	1.000	1.136	1.000	0.981	4.02	4	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0234	1.002	1.235	1.000	0.891	4.12	4	5	7	1.003
	200	1.0000	0.0007	0.0269	1.002	1.294	1.000	0.873	4.14	4	5	7	1.001
	300	1.0000	0.0004	0.0248	1.002	1.331	1.000	0.883	4.13	4	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0124	1.001	1.166	1.000	0.941	4.06	4	5	7	1.002
	200	1.0000	0.0003	0.0131	1.001	1.168	1.000	0.938	4.07	4	5	6	1.000
	300	1.0000	0.0002	0.0124	1.001	1.196	1.000	0.940	4.06	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0037	1.000	1.067	1.000	0.982	4.02	4	4	5	1.001
	200	1.0000	0.0001	0.0038	1.000	1.069	1.000	0.982	4.02	4	4	6	1.000
	300	0.9999	0.0001	0.0032	1.000	1.078	1.000	0.984	4.02	4	4	5	1.000

Notes: See notes to Table 1.

Table 132: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0227	1.001	1.267	1.000	0.893	4.12	4	5	8	1.011
	200	1.0000	0.0006	0.0242	1.001	1.310	1.000	0.886	4.12	4	5	6	1.008
	300	1.0000	0.0004	0.0239	1.001	1.313	1.000	0.887	4.12	4	5	6	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0114	1.001	1.167	1.000	0.945	4.06	4	5	7	1.008
	200	1.0000	0.0003	0.0127	1.001	1.199	1.000	0.938	4.06	4	5	6	1.005
	300	1.0000	0.0002	0.0135	1.001	1.213	1.000	0.935	4.07	4	5	6	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0022	1.000	1.051	1.000	0.989	4.01	4	4	5	1.002
	200	1.0000	0.0001	0.0024	1.000	1.057	1.000	0.989	4.01	4	4	6	1.001
	300	1.0000	0.0001	0.0030	1.000	1.065	1.000	0.986	4.02	4	4	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0209	1.001	1.220	1.000	0.902	4.11	4	5	8	1.001
	200	1.0000	0.0006	0.0227	1.001	1.254	1.000	0.892	4.12	4	5	6	1.000
	300	1.0000	0.0004	0.0224	1.001	1.265	1.000	0.894	4.12	4	5	6	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0101	1.000	1.129	1.000	0.952	4.05	4	4	7	1.001
	200	1.0000	0.0003	0.0117	1.001	1.159	1.000	0.943	4.06	4	5	6	1.000
	300	1.0000	0.0002	0.0122	1.001	1.167	1.000	0.942	4.06	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0019	1.000	1.037	1.000	0.991	4.01	4	4	5	1.001
	200	1.0000	0.0001	0.0023	1.000	1.050	1.000	0.989	4.01	4	4	6	1.000
	300	1.0000	0.0001	0.0030	1.000	1.065	1.000	0.986	4.02	4	4	6	1.000

Notes: See notes to Table 1.

Table 133: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6381	0.0022	0.0644	1.053	2.945	0.263	0.213	2.76	1	5	7	1.015
	200	0.5741	0.0012	0.0779	1.067	3.318	0.208	0.165	2.53	0	4	7	1.012
	300	0.5489	0.0009	0.0915	1.073	3.469	0.159	0.122	2.46	0	4	7	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5848	0.0013	0.0460	1.059	3.067	0.211	0.187	2.47	0	4	6	1.010
	200	0.5135	0.0007	0.0547	1.074	3.448	0.160	0.138	2.19	0	4	6	1.008
	300	0.4855	0.0005	0.0634	1.080	3.565	0.123	0.106	2.10	0	4	6	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4489	0.0004	0.0149	1.079	3.424	0.118	0.110	1.83	0	4	6	1.003
	200	0.3819	0.0002	0.0219	1.093	3.767	0.078	0.073	1.57	0	4	6	1.004
	300	0.3604	0.0002	0.0275	1.098	3.829	0.059	0.057	1.50	0	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6381	0.0020	0.0608	1.052	2.892	0.263	0.216	2.75	1	5	7	1.002
	200	0.5741	0.0011	0.0755	1.066	3.282	0.208	0.167	2.52	0	4	7	1.002
	300	0.5488	0.0009	0.0884	1.072	3.417	0.159	0.124	2.45	0	4	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5848	0.0012	0.0433	1.058	3.033	0.211	0.188	2.46	0	4	6	1.001
	200	0.5134	0.0007	0.0531	1.073	3.428	0.160	0.139	2.19	0	4	6	1.001
	300	0.4854	0.0005	0.0611	1.079	3.530	0.123	0.106	2.09	0	4	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4489	0.0004	0.0143	1.079	3.416	0.118	0.110	1.83	0	4	6	1.001
	200	0.3818	0.0002	0.0209	1.093	3.760	0.078	0.074	1.57	0	4	6	1.001
	300	0.3604	0.0002	0.0266	1.098	3.815	0.059	0.057	1.50	0	4	6	1.001

Notes: See notes to Table 1.

Table 134: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9974	0.0012	0.0226	1.002	1.414	0.990	0.885	4.11	4	5	7	1.009
	200	0.9964	0.0007	0.0281	1.003	1.535	0.987	0.857	4.13	4	5	7	1.006
	300	0.9940	0.0005	0.0303	1.003	1.629	0.977	0.844	4.13	4	5	7	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9955	0.0007	0.0124	1.002	1.340	0.983	0.926	4.05	4	5	7	1.004
	200	0.9938	0.0004	0.0155	1.002	1.444	0.978	0.905	4.05	4	5	6	1.004
	300	0.9918	0.0003	0.0166	1.002	1.517	0.968	0.889	4.05	4	5	6	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9886	0.0002	0.0038	1.002	1.416	0.959	0.941	3.97	4	4	5	1.003
	200	0.9835	0.0001	0.0042	1.002	1.558	0.941	0.922	3.96	3	4	6	1.002
	300	0.9789	0.0001	0.0043	1.002	1.681	0.921	0.900	3.94	3	4	5	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0011	0.0211	1.002	1.372	0.990	0.892	4.10	4	5	7	1.001
	200	0.9964	0.0007	0.0269	1.003	1.507	0.987	0.862	4.12	4	5	7	1.000
	300	0.9940	0.0005	0.0288	1.003	1.584	0.977	0.851	4.12	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9955	0.0006	0.0116	1.002	1.319	0.983	0.930	4.04	4	5	7	1.000
	200	0.9938	0.0004	0.0147	1.002	1.421	0.978	0.909	4.05	4	5	6	1.000
	300	0.9918	0.0003	0.0153	1.002	1.477	0.968	0.895	4.04	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9886	0.0002	0.0032	1.002	1.393	0.959	0.944	3.97	4	4	5	1.000
	200	0.9835	0.0001	0.0039	1.002	1.546	0.941	0.924	3.95	3	4	6	1.000
	300	0.9789	0.0001	0.0037	1.002	1.662	0.921	0.903	3.93	3	4	5	1.001

Notes: See notes to Table 1.

Table 135: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0242	1.001	1.349	1.000	0.888	4.13	4	5	8	1.004
	200	1.0000	0.0007	0.0253	1.001	1.435	1.000	0.881	4.13	4	5	7	1.006
	300	1.0000	0.0004	0.0246	1.001	1.431	1.000	0.885	4.13	4	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0145	1.001	1.252	1.000	0.932	4.08	4	5	7	1.004
	200	1.0000	0.0004	0.0138	1.001	1.283	1.000	0.934	4.07	4	5	6	1.004
	300	1.0000	0.0002	0.0138	1.001	1.286	1.000	0.933	4.07	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0034	1.000	1.087	1.000	0.984	4.02	4	4	6	1.001
	200	0.9999	0.0001	0.0034	1.000	1.119	1.000	0.984	4.02	4	4	6	1.002
	300	1.0000	0.0001	0.0035	1.000	1.103	1.000	0.983	4.02	4	4	5	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0236	1.001	1.336	1.000	0.891	4.12	4	5	8	1.001
	200	1.0000	0.0006	0.0243	1.001	1.405	1.000	0.886	4.13	4	5	7	1.001
	300	1.0000	0.0004	0.0241	1.001	1.413	1.000	0.887	4.12	4	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0139	1.001	1.236	1.000	0.935	4.07	4	5	7	1.001
	200	1.0000	0.0003	0.0132	1.001	1.260	1.000	0.937	4.07	4	5	6	1.001
	300	1.0000	0.0002	0.0137	1.001	1.281	1.000	0.934	4.07	4	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0032	1.000	1.078	1.000	0.985	4.02	4	4	6	1.000
	200	0.9999	0.0001	0.0031	1.000	1.102	1.000	0.985	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0034	1.000	1.097	1.000	0.983	4.02	4	4	5	1.001

Notes: See notes to Table 1.

Table 136: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0024	0.0429	1.008	1.066	1.000	0.809	4.23	4	5	7	1.034
	200	1.0000	0.0012	0.0459	1.008	1.079	1.000	0.796	4.24	4	5	9	1.032
	300	1.0000	0.0010	0.0539	1.010	1.086	1.000	0.768	4.29	4	6	8	1.042
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0284	1.005	1.045	1.000	0.871	4.15	4	5	7	1.024
	200	1.0000	0.0008	0.0291	1.006	1.056	1.000	0.867	4.15	4	5	7	1.022
	300	1.0000	0.0006	0.0337	1.007	1.058	1.000	0.850	4.18	4	5	8	1.029
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0090	1.002	1.018	1.000	0.957	4.05	4	4	6	1.008
	200	1.0000	0.0003	0.0097	1.002	1.027	1.000	0.954	4.05	4	4	7	1.009
	300	1.0000	0.0002	0.0117	1.002	1.021	1.000	0.946	4.06	4	5	6	1.008
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0021	0.0378	1.005	1.041	1.000	0.831	4.20	4	5	7	1.007
	200	1.0000	0.0011	0.0409	1.007	1.061	1.000	0.817	4.22	4	5	9	1.006
	300	1.0000	0.0009	0.0471	1.007	1.049	1.000	0.797	4.25	4	5	8	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0246	1.004	1.031	1.000	0.887	4.13	4	5	7	1.006
	200	1.0000	0.0007	0.0257	1.004	1.046	1.000	0.882	4.13	4	5	7	1.005
	300	1.0000	0.0005	0.0290	1.005	1.032	1.000	0.872	4.16	4	5	8	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0078	1.001	1.011	1.000	0.963	4.04	4	4	6	1.003
	200	1.0000	0.0002	0.0084	1.001	1.018	1.000	0.960	4.04	4	4	7	1.003
	300	1.0000	0.0002	0.0104	1.002	1.013	1.000	0.952	4.05	4	4	6	1.001

Notes: See notes to Table 1.

Table 137: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0260	1.002	1.044	1.000	0.879	4.13	4	5	7	1.020
	200	1.0000	0.0008	0.0308	1.002	1.046	1.000	0.859	4.16	4	5	7	1.016
	300	1.0000	0.0005	0.0314	1.002	1.063	1.000	0.852	4.16	4	5	7	1.018
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0140	1.001	1.027	1.000	0.933	4.07	4	5	6	1.012
	200	1.0000	0.0005	0.0178	1.001	1.030	1.000	0.916	4.09	4	5	7	1.010
	300	1.0000	0.0003	0.0176	1.001	1.042	1.000	0.915	4.09	4	5	6	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0040	1.000	1.010	1.000	0.981	4.02	4	4	6	1.004
	200	1.0000	0.0001	0.0050	1.000	1.010	1.000	0.976	4.03	4	4	6	1.004
	300	1.0000	0.0001	0.0057	1.000	1.021	1.000	0.972	4.03	4	4	5	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0229	1.001	1.029	1.000	0.892	4.12	4	5	7	1.003
	200	1.0000	0.0007	0.0282	1.001	1.032	1.000	0.870	4.15	4	5	7	1.002
	300	1.0000	0.0005	0.0287	1.001	1.045	1.000	0.864	4.15	4	5	7	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0120	1.001	1.017	1.000	0.942	4.06	4	5	6	1.002
	200	1.0000	0.0004	0.0163	1.001	1.020	1.000	0.924	4.08	4	5	7	1.002
	300	1.0000	0.0003	0.0155	1.001	1.027	1.000	0.925	4.08	4	5	6	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0032	1.000	1.005	1.000	0.985	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0046	1.000	1.008	1.000	0.978	4.02	4	4	6	1.002
	300	1.0000	0.0001	0.0047	1.000	1.012	1.000	0.977	4.02	4	4	5	1.001

Notes: See notes to Table 1.

Table 138: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0280	1.001	1.042	1.000	0.874	4.15	4	5	7	1.013
	200	1.0000	0.0007	0.0258	1.001	1.042	1.000	0.877	4.13	4	5	7	1.012
	300	1.0000	0.0005	0.0283	1.001	1.052	1.000	0.868	4.15	4	5	8	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0153	1.000	1.029	1.000	0.929	4.08	4	5	7	1.010
	200	1.0000	0.0003	0.0130	1.001	1.020	1.000	0.937	4.07	4	5	6	1.007
	300	1.0000	0.0002	0.0142	1.000	1.030	1.000	0.931	4.07	4	5	6	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0048	1.000	1.009	1.000	0.977	4.02	4	4	6	1.002
	200	1.0000	0.0001	0.0030	1.000	1.006	1.000	0.986	4.02	4	4	6	1.003
	300	1.0000	0.0001	0.0037	1.000	1.008	1.000	0.982	4.02	4	4	5	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0258	1.001	1.031	1.000	0.884	4.14	4	5	7	1.002
	200	1.0000	0.0006	0.0238	1.001	1.033	1.000	0.886	4.12	4	5	6	1.002
	300	1.0000	0.0004	0.0257	1.001	1.035	1.000	0.880	4.13	4	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0138	1.000	1.020	1.000	0.936	4.07	4	5	7	1.002
	200	1.0000	0.0003	0.0120	1.000	1.016	1.000	0.942	4.06	4	5	6	1.002
	300	1.0000	0.0002	0.0126	1.000	1.019	1.000	0.939	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0045	1.000	1.007	1.000	0.978	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0026	1.000	1.003	1.000	0.988	4.01	4	4	6	1.001
	300	1.0000	0.0001	0.0034	1.000	1.005	1.000	0.983	4.02	4	4	5	1.000

Notes: See notes to Table 1.

Table 139: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0022	0.0394	1.009	1.071	1.000	0.821	4.21	4	5	7	1.026
	200	0.9990	0.0012	0.0442	1.010	1.084	0.997	0.799	4.23	4	5	8	1.026
	300	0.9995	0.0009	0.0486	1.011	1.100	0.999	0.783	4.26	4	5	8	1.030
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0013	0.0246	1.006	1.053	0.999	0.885	4.13	4	5	6	1.021
	200	0.9989	0.0007	0.0275	1.007	1.057	0.997	0.870	4.14	4	5	7	1.018
	300	0.9995	0.0005	0.0306	1.008	1.073	0.999	0.859	4.16	4	5	8	1.022
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0005	0.0089	1.003	1.018	0.997	0.954	4.04	4	4	6	1.011
	200	0.9971	0.0003	0.0106	1.003	1.023	0.992	0.943	4.04	4	4	6	1.007
	300	0.9974	0.0002	0.0099	1.003	1.029	0.992	0.944	4.04	4	4	6	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0019	0.0358	1.008	1.054	1.000	0.836	4.19	4	5	7	1.008
	200	0.9990	0.0011	0.0402	1.008	1.055	0.997	0.817	4.21	4	5	7	1.005
	300	0.9995	0.0008	0.0440	1.009	1.069	0.999	0.801	4.23	4	5	7	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0011	0.0212	1.005	1.034	0.999	0.900	4.11	4	5	6	1.006
	200	0.9989	0.0007	0.0247	1.006	1.044	0.997	0.882	4.12	4	5	7	1.004
	300	0.9995	0.0005	0.0270	1.006	1.051	0.999	0.875	4.14	4	5	7	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9988	0.0004	0.0070	1.002	1.009	0.997	0.963	4.03	4	4	6	1.002
	200	0.9971	0.0002	0.0093	1.003	1.018	0.992	0.948	4.04	4	4	6	1.001
	300	0.9974	0.0001	0.0084	1.002	1.018	0.992	0.951	4.03	4	4	6	1.002

Notes: See notes to Table 1.

Table 140: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0261	1.002	1.059	1.000	0.882	4.14	4	5	6	1.017
	200	1.0000	0.0008	0.0287	1.002	1.059	1.000	0.867	4.15	4	5	7	1.011
	300	1.0000	0.0005	0.0308	1.002	1.066	1.000	0.857	4.16	4	5	7	1.016
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0131	1.001	1.033	1.000	0.939	4.07	4	5	6	1.010
	200	1.0000	0.0004	0.0167	1.001	1.039	1.000	0.920	4.09	4	5	6	1.005
	300	1.0000	0.0003	0.0180	1.002	1.044	1.000	0.915	4.09	4	5	7	1.012
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0037	1.000	1.011	1.000	0.983	4.02	4	4	6	1.003
	200	1.0000	0.0001	0.0053	1.000	1.011	1.000	0.974	4.03	4	4	6	1.002
	300	1.0000	0.0001	0.0053	1.001	1.016	1.000	0.975	4.03	4	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0232	1.001	1.037	1.000	0.894	4.12	4	5	6	1.002
	200	1.0000	0.0007	0.0266	1.002	1.049	1.000	0.876	4.14	4	5	7	1.001
	300	1.0000	0.0005	0.0279	1.002	1.050	1.000	0.870	4.14	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0113	1.001	1.021	1.000	0.948	4.06	4	5	6	1.001
	200	1.0000	0.0004	0.0159	1.001	1.035	1.000	0.924	4.08	4	5	6	1.001
	300	1.0000	0.0003	0.0159	1.001	1.032	1.000	0.925	4.08	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0032	1.000	1.008	1.000	0.985	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0049	1.000	1.008	1.000	0.976	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0047	1.000	1.013	1.000	0.978	4.02	4	4	6	1.001

Notes: See notes to Table 1.

Table 141: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0239	1.001	1.047	1.000	0.886	4.12	4	5	7	1.006
	200	1.0000	0.0006	0.0220	1.001	1.047	1.000	0.898	4.11	4	5	7	1.009
	300	1.0000	0.0004	0.0255	1.001	1.065	1.000	0.883	4.13	4	5	7	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0131	1.001	1.032	1.000	0.937	4.07	4	5	6	1.007
	200	1.0000	0.0003	0.0111	1.001	1.028	1.000	0.948	4.06	4	5	7	1.006
	300	1.0000	0.0002	0.0135	1.001	1.041	1.000	0.936	4.07	4	5	6	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0032	1.000	1.008	1.000	0.985	4.02	4	4	6	1.003
	200	1.0000	0.0001	0.0031	1.000	1.008	1.000	0.985	4.02	4	4	6	1.002
	300	1.0000	0.0001	0.0034	1.000	1.013	1.000	0.983	4.02	4	4	5	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0231	1.001	1.040	1.000	0.890	4.12	4	5	7	1.003
	200	1.0000	0.0005	0.0204	1.001	1.038	1.000	0.905	4.11	4	5	7	1.001
	300	1.0000	0.0004	0.0232	1.001	1.055	1.000	0.894	4.12	4	5	7	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0121	1.000	1.025	1.000	0.942	4.06	4	5	6	1.002
	200	1.0000	0.0003	0.0100	1.001	1.022	1.000	0.953	4.05	4	4	7	1.001
	300	1.0000	0.0002	0.0121	1.001	1.032	1.000	0.942	4.06	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0027	1.000	1.004	1.000	0.987	4.01	4	4	6	1.000
	200	1.0000	0.0001	0.0027	1.000	1.006	1.000	0.987	4.01	4	4	6	1.000
	300	1.0000	0.0000	0.0029	1.000	1.007	1.000	0.986	4.01	4	4	5	1.000

Notes: See notes to Table 1.

Table 142: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9686	0.0022	0.0418	1.009	1.025	0.928	0.757	4.09	3	5	8	1.019
	200	0.9613	0.0012	0.0483	1.013	1.044	0.915	0.729	4.08	3	5	8	1.017
	300	0.9435	0.0009	0.0588	1.016	1.024	0.891	0.688	4.05	2	5	8	1.018
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9561	0.0013	0.0251	1.006	0.988	0.907	0.804	3.95	3	5	8	1.010
	200	0.9459	0.0007	0.0310	1.009	1.010	0.887	0.774	3.93	2	5	7	1.014
	300	0.9263	0.0006	0.0384	1.013	0.984	0.862	0.738	3.87	2	5	8	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9165	0.0004	0.0092	1.005	0.933	0.840	0.807	3.71	1	4	6	1.008
	200	0.9003	0.0003	0.0129	1.008	0.943	0.811	0.774	3.65	1	4	6	1.008
	300	0.8784	0.0002	0.0145	1.010	0.896	0.782	0.745	3.57	1	4	6	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9686	0.0020	0.0384	1.008	1.006	0.928	0.771	4.07	3	5	8	1.003
	200	0.9613	0.0011	0.0457	1.012	1.034	0.915	0.740	4.07	3	5	8	1.003
	300	0.9435	0.0009	0.0558	1.015	0.999	0.891	0.700	4.04	2	5	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9559	0.0012	0.0238	1.006	0.976	0.907	0.810	3.94	3	5	8	1.003
	200	0.9459	0.0007	0.0284	1.009	0.998	0.887	0.783	3.92	2	5	7	1.002
	300	0.9263	0.0005	0.0363	1.012	0.971	0.862	0.748	3.86	2	5	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9160	0.0004	0.0088	1.005	0.926	0.840	0.811	3.70	1	4	6	1.002
	200	0.9003	0.0002	0.0115	1.007	0.936	0.811	0.779	3.65	1	4	6	1.002
	300	0.8784	0.0002	0.0135	1.010	0.890	0.782	0.748	3.56	1	4	6	1.001

Notes: See notes to Table 1.

Table 143: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0269	1.002	1.055	1.000	0.880	4.14	4	5	7	1.009
	200	1.0000	0.0007	0.0277	1.002	1.070	1.000	0.871	4.14	4	5	8	1.007
	300	1.0000	0.0005	0.0306	1.003	1.089	1.000	0.857	4.16	4	5	6	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0164	1.001	1.038	1.000	0.924	4.09	4	5	7	1.008
	200	1.0000	0.0004	0.0146	1.001	1.042	1.000	0.931	4.08	4	5	7	1.005
	300	1.0000	0.0003	0.0174	1.002	1.054	1.000	0.917	4.09	4	5	6	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0046	1.000	1.013	1.000	0.980	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0038	1.000	1.012	1.000	0.982	4.02	4	4	6	1.002
	300	1.0000	0.0001	0.0055	1.001	1.021	1.000	0.974	4.03	4	4	6	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0254	1.002	1.050	1.000	0.887	4.13	4	5	7	1.001
	200	1.0000	0.0007	0.0263	1.002	1.064	1.000	0.877	4.14	4	5	8	1.000
	300	1.0000	0.0005	0.0296	1.003	1.082	1.000	0.862	4.15	4	5	6	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0149	1.001	1.032	1.000	0.931	4.08	4	5	6	1.001
	200	1.0000	0.0004	0.0136	1.001	1.035	1.000	0.936	4.07	4	5	7	1.000
	300	1.0000	0.0003	0.0162	1.002	1.047	1.000	0.923	4.08	4	5	6	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0044	1.000	1.012	1.000	0.981	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0036	1.000	1.010	1.000	0.983	4.02	4	4	6	1.000
	300	1.0000	0.0001	0.0049	1.001	1.017	1.000	0.977	4.03	4	4	6	1.000

Notes: See notes to Table 1.

Table 144: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0237	1.001	1.059	1.000	0.893	4.12	4	5	7	1.005
	200	1.0000	0.0006	0.0234	1.001	1.065	1.000	0.891	4.12	4	5	7	1.005
	300	1.0000	0.0004	0.0252	1.001	1.080	1.000	0.882	4.13	4	5	8	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0135	1.001	1.040	1.000	0.937	4.07	4	5	6	1.004
	200	1.0000	0.0003	0.0132	1.001	1.039	1.000	0.936	4.07	4	5	6	1.005
	300	1.0000	0.0002	0.0138	1.001	1.050	1.000	0.934	4.07	4	5	7	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0034	1.000	1.011	1.000	0.984	4.02	4	4	6	1.001
	200	1.0000	0.0001	0.0029	1.000	1.012	1.000	0.986	4.01	4	4	5	1.003
	300	1.0000	0.0001	0.0039	1.000	1.017	1.000	0.981	4.02	4	4	6	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0229	1.001	1.055	1.000	0.897	4.12	4	5	7	1.001
	200	1.0000	0.0006	0.0226	1.001	1.061	1.000	0.895	4.12	4	5	7	1.001
	300	1.0000	0.0004	0.0242	1.001	1.076	1.000	0.886	4.13	4	5	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0128	1.001	1.037	1.000	0.941	4.07	4	5	6	1.000
	200	1.0000	0.0003	0.0123	1.001	1.035	1.000	0.940	4.06	4	5	6	1.001
	300	1.0000	0.0002	0.0131	1.001	1.047	1.000	0.937	4.07	4	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0033	1.000	1.011	1.000	0.984	4.02	4	4	6	1.000
	200	1.0000	0.0001	0.0025	1.000	1.011	1.000	0.988	4.01	4	4	5	1.001
	300	1.0000	0.0001	0.0038	1.000	1.015	1.000	0.982	4.02	4	4	6	1.000

Notes: See notes to Table 1.

4.2 Findings for designs with non-zero correlations between signal and pseudo-signal variables

Table 145: MC findings for DGPII(a)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0225	0.3472	1.018	2.132	0.999	0.002	0.972	0.808	6.16	6	7	9	1.037
	200	1.0000	0.0112	0.3502	1.020	2.143	1.000	0.002	0.961	0.764	6.20	6	7	10	1.036
	300	1.0000	0.0075	0.3518	1.021	2.015	1.000	0.003	0.954	0.736	6.22	6	7	9	1.033
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0216	0.3388	1.016	2.077	0.999	0.003	0.959	0.851	6.08	6	7	8	1.024
	200	1.0000	0.0107	0.3395	1.017	2.067	1.000	0.003	0.943	0.816	6.09	6	7	9	1.025
	300	0.9999	0.0071	0.3387	1.017	1.932	1.000	0.004	0.932	0.801	6.09	5	7	9	1.019
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0202	0.3239	1.014	2.023	0.999	0.007	0.911	0.879	5.94	5	6	8	1.012
	200	0.9996	0.0099	0.3233	1.014	1.981	0.999	0.008	0.896	0.849	5.94	5	6	8	1.013
	300	0.9990	0.0065	0.3215	1.014	1.864	0.997	0.011	0.885	0.835	5.93	5	6.5	8	1.011
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0223	0.3447	1.016	2.067	0.999	0.002	0.972	0.831	6.14	6	7	9	1.010
	200	1.0000	0.0111	0.3474	1.018	2.086	1.000	0.003	0.961	0.784	6.17	6	7	10	1.010
	300	1.0000	0.0074	0.3491	1.018	1.935	1.000	0.003	0.954	0.758	6.19	6	7	9	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0215	0.3372	1.015	2.041	0.999	0.003	0.959	0.866	6.06	6	7	8	1.007
	200	1.0000	0.0106	0.3374	1.015	2.023	1.000	0.004	0.943	0.831	6.07	5	7	9	1.006
	300	0.9999	0.0070	0.3372	1.016	1.893	1.000	0.004	0.932	0.813	6.07	5	7	9	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0201	0.3229	1.013	1.993	0.999	0.007	0.911	0.887	5.93	5	6	8	1.002
	200	0.9996	0.0099	0.3223	1.013	1.951	0.999	0.008	0.896	0.856	5.93	5	6	8	1.005
	300	0.9990	0.0065	0.3204	1.013	1.832	0.997	0.011	0.885	0.844	5.92	5	6	8	1.001

Notes: See notes to Table 46.

Table 146: MC findings for DGPII(a)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0224	0.3472	1.005	2.037	1.000	0.000	1.000	0.865	6.15	6	7	9	1.025
	200	1.0000	0.0110	0.3479	1.006	2.076	1.000	0.000	1.000	0.862	6.16	6	7	10	1.019
	300	1.0000	0.0073	0.3472	1.005	1.944	1.000	0.000	1.000	0.866	6.15	6	7	9	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0217	0.3413	1.005	1.992	1.000	0.000	1.000	0.924	6.09	6	7	9	1.016
	200	1.0000	0.0106	0.3411	1.005	2.007	1.000	0.000	1.000	0.924	6.08	6	7	9	1.012
	300	1.0000	0.0070	0.3408	1.005	1.902	1.000	0.000	1.000	0.926	6.08	6	7	8	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0211	0.3360	1.004	1.936	1.000	0.000	1.000	0.974	6.03	6	6	8	1.007
	200	1.0000	0.0103	0.3353	1.004	1.942	1.000	0.000	1.000	0.980	6.02	6	6	8	1.003
	300	1.0000	0.0068	0.3355	1.004	1.848	1.000	0.000	1.000	0.978	6.02	6	6	8	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0222	0.3455	1.005	1.977	1.000	0.000	1.000	0.882	6.13	6	7	9	1.006
	200	1.0000	0.0109	0.3464	1.005	2.026	1.000	0.000	1.000	0.875	6.14	6	7	9	1.002
	300	1.0000	0.0072	0.3462	1.005	1.909	1.000	0.000	1.000	0.877	6.14	6	7	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0216	0.3402	1.004	1.955	1.000	0.000	1.000	0.933	6.07	6	7	8	1.005
	200	1.0000	0.0106	0.3400	1.004	1.964	1.000	0.000	1.000	0.935	6.07	6	7	9	1.001
	300	1.0000	0.0070	0.3402	1.005	1.878	1.000	0.000	1.000	0.933	6.07	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0211	0.3355	1.004	1.921	1.000	0.000	1.000	0.979	6.02	6	6	8	1.002
	200	1.0000	0.0103	0.3350	1.004	1.926	1.000	0.000	1.000	0.983	6.02	6	6	8	1.000
	300	1.0000	0.0068	0.3353	1.004	1.836	1.000	0.000	1.000	0.980	6.02	6	6	8	1.000

Notes: See notes to Table 46.

Table 147: MC findings for DGPII(a)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3446	1.003	1.993	1.000	0.000	1.000	0.891	6.12	6	7	10	1.011
	200	1.0000	0.0109	0.3467	1.003	2.015	1.000	0.000	1.000	0.869	6.14	6	7	9	1.016
	300	1.0000	0.0072	0.3457	1.003	1.989	1.000	0.000	1.000	0.879	6.13	6	7	9	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3390	1.003	1.961	1.000	0.000	1.000	0.943	6.06	6	7	8	1.007
	200	1.0000	0.0106	0.3410	1.003	1.967	1.000	0.000	1.000	0.924	6.08	6	7	9	1.009
	300	1.0000	0.0070	0.3402	1.003	1.953	1.000	0.000	1.000	0.930	6.07	6	7	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3344	1.002	1.923	1.000	0.000	1.000	0.989	6.01	6	6	7	1.002
	200	1.0000	0.0103	0.3352	1.002	1.907	1.000	0.000	1.000	0.981	6.02	6	6	8	1.002
	300	1.0000	0.0068	0.3353	1.002	1.911	1.000	0.000	1.000	0.980	6.02	6	6	8	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3437	1.003	1.974	1.000	0.000	1.000	0.899	6.11	6	7	9	1.002
	200	1.0000	0.0109	0.3452	1.003	1.971	1.000	0.000	1.000	0.883	6.13	6	7	9	1.001
	300	1.0000	0.0072	0.3449	1.003	1.962	1.000	0.000	1.000	0.886	6.12	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3385	1.003	1.940	1.000	0.000	1.000	0.948	6.05	6	7	8	1.001
	200	1.0000	0.0106	0.3401	1.002	1.938	1.000	0.000	1.000	0.933	6.07	6	7	8	1.000
	300	1.0000	0.0070	0.3397	1.003	1.927	1.000	0.000	1.000	0.936	6.07	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3342	1.002	1.915	1.000	0.000	1.000	0.991	6.01	6	6	7	1.000
	200	1.0000	0.0103	0.3350	1.002	1.900	1.000	0.000	1.000	0.983	6.02	6	6	7	1.000
	300	1.0000	0.0068	0.3350	1.002	1.895	1.000	0.000	1.000	0.983	6.02	6	6	8	1.001

Notes: See notes to Table 46.

Table 148: MC findings for DGPII(a)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9954	0.0209	0.3268	1.018	1.981	0.986	0.016	0.833	0.696	5.99	5	7	9	1.023
	200	0.9884	0.0101	0.3211	1.021	2.039	0.966	0.024	0.772	0.620	5.93	5	7	11	1.032
	300	0.9891	0.0066	0.3192	1.023	2.087	0.969	0.030	0.753	0.585	5.92	4	7	11	1.031
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9928	0.0196	0.3120	1.016	1.922	0.977	0.024	0.791	0.703	5.85	5	7	9	1.016
	200	0.9833	0.0093	0.3032	1.018	1.968	0.951	0.035	0.725	0.633	5.75	4	7	9	1.024
	300	0.9843	0.0061	0.3013	1.020	2.007	0.954	0.041	0.706	0.595	5.75	4	7	10	1.025
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9799	0.0170	0.2802	1.014	1.839	0.941	0.050	0.661	0.632	5.55	4	6	8	1.008
	200	0.9655	0.0079	0.2697	1.015	1.904	0.905	0.056	0.611	0.583	5.42	3	6	9	1.011
	300	0.9644	0.0051	0.2651	1.016	1.879	0.897	0.061	0.568	0.538	5.38	3	6	8	1.014
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9954	0.0207	0.3247	1.017	1.941	0.986	0.017	0.833	0.708	5.97	5	7	9	1.003
	200	0.9884	0.0099	0.3183	1.019	1.980	0.966	0.024	0.772	0.638	5.90	5	7	11	1.006
	300	0.9891	0.0066	0.3169	1.021	2.014	0.969	0.031	0.753	0.598	5.90	4	7	11	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9928	0.0195	0.3107	1.015	1.897	0.977	0.024	0.791	0.712	5.84	5	7	9	1.003
	200	0.9833	0.0092	0.3011	1.016	1.916	0.951	0.036	0.725	0.646	5.73	4	7	9	1.005
	300	0.9843	0.0060	0.2992	1.018	1.937	0.954	0.041	0.706	0.607	5.73	4	7	10	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9799	0.0170	0.2798	1.013	1.826	0.941	0.050	0.661	0.637	5.55	4	6	8	1.003
	200	0.9655	0.0079	0.2685	1.014	1.887	0.905	0.058	0.611	0.588	5.41	3	6	9	1.002
	300	0.9644	0.0051	0.2635	1.015	1.826	0.897	0.062	0.568	0.543	5.37	3	6	8	1.001

Notes: See notes to Table 46.

Table 149: MC findings for DGPII(a)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0222	0.3452	1.005	1.995	1.000	0.000	1.000	0.883	6.13	6	7	9	1.015
	200	1.0000	0.0109	0.3462	1.006	2.045	1.000	0.000	1.000	0.873	6.14	6	7	9	1.017
	300	1.0000	0.0073	0.3480	1.006	2.053	1.000	0.000	1.000	0.860	6.16	6	7	9	1.016
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0216	0.3399	1.004	1.948	1.000	0.000	1.000	0.935	6.07	6	7	9	1.008
	200	1.0000	0.0106	0.3404	1.005	1.984	1.000	0.000	1.000	0.928	6.08	6	7	9	1.011
	300	1.0000	0.0070	0.3407	1.005	1.963	1.000	0.000	1.000	0.925	6.08	6	7	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3352	1.004	1.886	1.000	0.000	1.000	0.980	6.02	6	6	8	1.004
	200	1.0000	0.0103	0.3353	1.004	1.893	1.000	0.000	1.000	0.979	6.02	6	6	8	1.005
	300	1.0000	0.0069	0.3360	1.004	1.901	1.000	0.000	0.999	0.970	6.03	6	6	7	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3441	1.005	1.957	1.000	0.000	1.000	0.894	6.12	6	7	9	1.003
	200	1.0000	0.0108	0.3448	1.006	2.000	1.000	0.000	1.000	0.887	6.12	6	7	9	1.003
	300	1.0000	0.0072	0.3466	1.006	2.002	1.000	0.000	1.000	0.873	6.14	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0215	0.3393	1.004	1.924	1.000	0.000	1.000	0.941	6.06	6	7	9	1.002
	200	1.0000	0.0105	0.3397	1.005	1.950	1.000	0.000	1.000	0.936	6.07	6	7	9	1.003
	300	1.0000	0.0070	0.3402	1.005	1.942	1.000	0.000	1.000	0.930	6.07	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3348	1.003	1.870	1.000	0.000	1.000	0.984	6.02	6	6	8	1.000
	200	1.0000	0.0103	0.3349	1.004	1.874	1.000	0.000	1.000	0.983	6.02	6	6	8	1.001
	300	1.0000	0.0068	0.3358	1.004	1.893	1.000	0.000	0.999	0.972	6.03	6	6	7	1.001

Notes: See notes to Table 46.

Table 150: MC findings for DGPII(a)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0220	0.3442	1.003	1.910	1.000	0.000	1.000	0.890	6.12	6	7	10	1.011
	200	1.0000	0.0108	0.3450	1.003	2.108	1.000	0.000	1.000	0.888	6.13	6	7	8	1.013
	300	1.0000	0.0072	0.3454	1.003	1.979	1.000	0.000	1.000	0.884	6.13	6	7	9	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3393	1.003	1.865	1.000	0.000	1.000	0.940	6.06	6	7	10	1.006
	200	1.0000	0.0106	0.3401	1.003	2.048	1.000	0.000	1.000	0.934	6.07	6	7	8	1.009
	300	1.0000	0.0070	0.3400	1.003	1.903	1.000	0.000	1.000	0.933	6.07	6	7	8	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3349	1.002	1.814	1.000	0.000	1.000	0.984	6.02	6	6	9	1.001
	200	1.0000	0.0103	0.3348	1.002	1.981	1.000	0.000	1.000	0.986	6.02	6	6	8	1.002
	300	1.0000	0.0068	0.3348	1.002	1.825	1.000	0.000	1.000	0.985	6.02	6	6	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3432	1.003	1.882	1.000	0.000	1.000	0.900	6.11	6	7	9	1.001
	200	1.0000	0.0108	0.3440	1.003	2.079	1.000	0.000	1.000	0.897	6.12	6	7	8	1.002
	300	1.0000	0.0072	0.3445	1.003	1.937	1.000	0.000	1.000	0.893	6.12	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3387	1.002	1.845	1.000	0.000	1.000	0.945	6.06	6	7	9	1.000
	200	1.0000	0.0105	0.3394	1.003	2.025	1.000	0.000	1.000	0.941	6.07	6	7	8	1.001
	300	1.0000	0.0070	0.3393	1.003	1.874	1.000	0.000	1.000	0.940	6.06	6	7	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3348	1.002	1.809	1.000	0.000	1.000	0.985	6.02	6	6	9	1.000
	200	1.0000	0.0103	0.3346	1.002	1.970	1.000	0.000	1.000	0.988	6.01	6	6	8	1.000
	300	1.0000	0.0068	0.3348	1.002	1.823	1.000	0.000	1.000	0.985	6.02	6	6	8	1.000

Notes: See notes to Table 46.

Table 151: MC findings for DGPII(a)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8775	0.0152	0.2651	1.021	1.831	0.725	0.049	0.439	0.370	4.97	2	7	9	1.017
	200	0.8549	0.0071	0.2584	1.023	1.838	0.669	0.054	0.378	0.306	4.81	1.5	7	9	1.019
	300	0.8195	0.0045	0.2559	1.033	1.970	0.626	0.062	0.334	0.260	4.62	1	7	10	1.016
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8458	0.0130	0.2360	1.020	1.742	0.667	0.068	0.366	0.328	4.64	1	6	9	1.014
	200	0.8195	0.0061	0.2319	1.022	1.774	0.610	0.066	0.320	0.279	4.47	1	6	8	1.015
	300	0.7834	0.0038	0.2277	1.033	1.881	0.574	0.071	0.283	0.246	4.27	1	6	10	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7570	0.0097	0.1879	1.025	1.700	0.528	0.084	0.253	0.243	3.96	0	6	8	1.007
	200	0.7276	0.0043	0.1784	1.027	1.721	0.482	0.078	0.199	0.189	3.76	0	6	7	1.007
	300	0.6900	0.0027	0.1741	1.038	1.821	0.458	0.085	0.181	0.172	3.55	0	6	8	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8775	0.0151	0.2636	1.021	1.801	0.725	0.049	0.439	0.379	4.96	2	7	9	1.004
	200	0.8549	0.0070	0.2562	1.021	1.806	0.669	0.054	0.378	0.311	4.79	1.5	7	9	1.003
	300	0.8195	0.0045	0.2540	1.032	1.940	0.626	0.062	0.334	0.267	4.60	1	7	10	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8458	0.0129	0.2348	1.020	1.723	0.667	0.069	0.366	0.333	4.63	1	6	9	1.004
	200	0.8195	0.0060	0.2298	1.021	1.739	0.610	0.067	0.320	0.284	4.46	1	6	8	1.002
	300	0.7833	0.0038	0.2262	1.032	1.846	0.574	0.071	0.283	0.251	4.25	1	6	10	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7570	0.0097	0.1869	1.025	1.686	0.528	0.084	0.253	0.245	3.96	0	6	8	1.001
	200	0.7275	0.0043	0.1778	1.027	1.708	0.482	0.079	0.199	0.191	3.75	0	6	7	1.001
	300	0.6900	0.0027	0.1730	1.037	1.798	0.458	0.086	0.181	0.173	3.55	0	6	8	1.000

Notes: See notes to Table 46.

Table 152: MC findings for DGPII(a)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3440	1.005	2.045	1.000	0.000	0.993	0.882	6.12	6	7	9	1.011
	200	0.9999	0.0109	0.3455	1.006	2.089	1.000	0.000	0.988	0.857	6.13	6	7	9	1.009
	300	1.0000	0.0071	0.3427	1.006	2.097	1.000	0.002	0.982	0.866	6.11	6	7	9	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0214	0.3376	1.004	1.970	1.000	0.000	0.986	0.928	6.05	6	7	8	1.007
	200	0.9999	0.0105	0.3379	1.005	2.007	1.000	0.001	0.981	0.911	6.06	6	7	9	1.004
	300	1.0000	0.0069	0.3361	1.005	2.023	1.000	0.002	0.973	0.907	6.04	6	7	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0206	0.3296	1.004	1.891	0.999	0.003	0.965	0.950	5.98	6	6	8	1.002
	200	0.9999	0.0101	0.3287	1.004	1.906	1.000	0.002	0.954	0.935	5.97	6	6	8	1.002
	300	0.9996	0.0066	0.3255	1.003	1.925	0.999	0.005	0.937	0.922	5.95	5	6	8	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3431	1.005	2.005	1.000	0.000	0.993	0.890	6.11	6	7	9	1.001
	200	0.9999	0.0108	0.3447	1.006	2.071	1.000	0.000	0.988	0.864	6.13	6	7	9	1.000
	300	1.0000	0.0071	0.3423	1.005	2.082	1.000	0.002	0.982	0.870	6.11	6	7	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0213	0.3370	1.004	1.957	1.000	0.000	0.986	0.934	6.04	6	7	8	1.001
	200	0.9999	0.0105	0.3376	1.005	1.995	1.000	0.001	0.981	0.914	6.05	6	7	9	1.000
	300	1.0000	0.0069	0.3359	1.004	2.010	1.000	0.002	0.973	0.909	6.04	6	7	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0206	0.3294	1.003	1.888	0.999	0.003	0.965	0.952	5.97	6	6	8	1.000
	200	0.9999	0.0101	0.3285	1.004	1.901	1.000	0.002	0.954	0.937	5.97	6	6	8	1.001
	300	0.9996	0.0066	0.3253	1.003	1.913	0.999	0.005	0.937	0.923	5.95	5	6	8	1.000

Notes: See notes to Table 46.

Table 153: MC findings for DGPII(a)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0222	0.3450	1.003	2.011	1.000	0.000	1.000	0.888	6.13	6	7	9	1.006
	200	1.0000	0.0108	0.3451	1.003	2.053	1.000	0.000	1.000	0.883	6.13	6	7	9	1.005
	300	1.0000	0.0072	0.3461	1.004	2.058	1.000	0.000	1.000	0.878	6.14	6	7	10	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3389	1.003	1.929	1.000	0.000	1.000	0.945	6.06	6	7	8	1.003
	200	1.0000	0.0106	0.3398	1.003	1.974	1.000	0.000	1.000	0.934	6.07	6	7	8	1.002
	300	1.0000	0.0070	0.3408	1.003	1.980	1.000	0.000	1.000	0.928	6.08	6	7	9	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3347	1.002	1.871	1.000	0.000	1.000	0.987	6.01	6	6	8	1.001
	200	1.0000	0.0103	0.3353	1.002	1.901	1.000	0.000	1.000	0.980	6.02	6	6	8	1.001
	300	1.0000	0.0068	0.3350	1.002	1.878	1.000	0.000	0.999	0.981	6.02	6	6	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0221	0.3445	1.003	2.000	1.000	0.000	1.000	0.893	6.12	6	7	9	1.001
	200	1.0000	0.0108	0.3447	1.003	2.036	1.000	0.000	1.000	0.888	6.12	6	7	9	1.000
	300	1.0000	0.0072	0.3457	1.004	2.046	1.000	0.000	1.000	0.881	6.13	6	7	10	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3387	1.003	1.925	1.000	0.000	1.000	0.947	6.06	6	7	8	1.001
	200	1.0000	0.0106	0.3398	1.003	1.970	1.000	0.000	1.000	0.934	6.07	6	7	8	1.001
	300	1.0000	0.0070	0.3405	1.003	1.970	1.000	0.000	1.000	0.931	6.08	6	7	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3346	1.002	1.870	1.000	0.000	1.000	0.987	6.01	6	6	8	1.001
	200	1.0000	0.0103	0.3352	1.002	1.897	1.000	0.000	1.000	0.981	6.02	6	6	7	1.000
	300	1.0000	0.0068	0.3350	1.002	1.876	1.000	0.000	0.999	0.981	6.02	6	6	8	1.000

Notes: See notes to Table 46.

Table 154: MC findings for DGPII(b)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0058	0.1034	1.011	1.396	0.997	0.552	4.56	4	6	9	1.034
	200	0.9975	0.0028	0.1033	1.014	1.514	0.990	0.550	4.55	4	6	9	1.049
	300	0.9969	0.0019	0.1010	1.014	1.607	0.988	0.568	4.54	4	6	8	1.057
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9978	0.0042	0.0769	1.008	1.325	0.991	0.644	4.40	4	5	8	1.024
	200	0.9959	0.0021	0.0764	1.011	1.470	0.984	0.645	4.39	4	6	8	1.039
	300	0.9948	0.0013	0.0724	1.011	1.527	0.979	0.665	4.36	4	6	8	1.036
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9924	0.0022	0.0421	1.007	1.333	0.971	0.771	4.18	4	5	7	1.009
	200	0.9889	0.0010	0.0397	1.009	1.525	0.957	0.774	4.16	4	5	7	1.019
	300	0.9874	0.0006	0.0361	1.009	1.519	0.950	0.784	4.13	4	5	7	1.016
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0055	0.0988	1.009	1.318	0.997	0.567	4.53	4	6	8	1.007
	200	0.9974	0.0027	0.0966	1.011	1.410	0.990	0.573	4.51	4	6	9	1.013
	300	0.9969	0.0017	0.0930	1.010	1.447	0.988	0.592	4.49	4	6	8	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9978	0.0040	0.0735	1.007	1.262	0.991	0.658	4.38	4	5	8	1.006
	200	0.9958	0.0019	0.0706	1.008	1.362	0.983	0.668	4.35	4	5	8	1.008
	300	0.9948	0.0012	0.0673	1.009	1.411	0.979	0.682	4.33	4	5	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9924	0.0022	0.0411	1.006	1.317	0.971	0.776	4.18	4	5	7	1.004
	200	0.9888	0.0010	0.0371	1.008	1.463	0.957	0.783	4.14	4	5	7	1.005
	300	0.9873	0.0006	0.0340	1.008	1.476	0.949	0.792	4.12	4	5	7	1.004

Notes: See notes to Table 55.

Table 155: MC findings for DGPII(b)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0137	0.2369	1.003	1.428	1.000	0.043	5.32	5	7	9	1.017
	200	1.0000	0.0063	0.2245	1.004	1.488	1.000	0.073	5.24	4	6	10	1.024
	300	1.0000	0.0040	0.2168	1.004	1.407	1.000	0.090	5.18	4	6	8	1.020
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0123	0.2176	1.003	1.373	1.000	0.068	5.18	4	6	9	1.013
	200	1.0000	0.0056	0.2039	1.003	1.392	1.000	0.109	5.09	4	6	10	1.013
	300	1.0000	0.0035	0.1958	1.003	1.339	1.000	0.129	5.04	4	6	8	1.015
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0099	0.1834	1.002	1.268	1.000	0.148	4.95	4	6	7	1.006
	200	1.0000	0.0044	0.1669	1.002	1.246	1.000	0.216	4.86	4	6	7	1.004
	300	1.0000	0.0028	0.1623	1.002	1.203	1.000	0.229	4.83	4	6	7	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0136	0.2349	1.003	1.393	1.000	0.044	5.30	5	6	9	1.003
	200	1.0000	0.0062	0.2218	1.003	1.402	1.000	0.075	5.22	4	6	9	1.003
	300	1.0000	0.0039	0.2145	1.003	1.343	1.000	0.093	5.17	4	6	8	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0121	0.2162	1.003	1.340	1.000	0.070	5.17	4	6	9	1.002
	200	1.0000	0.0055	0.2024	1.003	1.341	1.000	0.111	5.08	4	6	9	1.002
	300	1.0000	0.0035	0.1940	1.002	1.281	1.000	0.130	5.02	4	6	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0099	0.1829	1.002	1.256	1.000	0.148	4.95	4	6	7	1.002
	200	1.0000	0.0044	0.1665	1.002	1.225	1.000	0.217	4.86	4	6	7	1.001
	300	1.0000	0.0028	0.1619	1.001	1.191	1.000	0.229	4.83	4	6	7	1.001

Notes: See notes to Table 55.

Table 156: MC findings for DGPII(b)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0167	0.2761	1.002	1.494	1.000	0.002	5.61	5	7	9	1.017
	200	1.0000	0.0077	0.2636	1.003	1.485	1.000	0.002	5.50	5	7	8	1.013
	300	1.0000	0.0049	0.2575	1.002	1.512	1.000	0.004	5.45	5	7	9	1.021
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0153	0.2596	1.002	1.434	1.000	0.003	5.47	5	7	8	1.009
	200	1.0000	0.0070	0.2470	1.002	1.412	1.000	0.003	5.37	5	6	8	1.008
	300	1.0000	0.0044	0.2401	1.002	1.411	1.000	0.008	5.31	5	6	8	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0129	0.2308	1.001	1.329	1.000	0.010	5.24	5	6	8	1.002
	200	1.0000	0.0061	0.2248	1.002	1.336	1.000	0.011	5.19	5	6	7	1.004
	300	1.0000	0.0039	0.2176	1.001	1.308	1.000	0.020	5.14	5	6	7	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0166	0.2745	1.002	1.444	1.000	0.002	5.59	5	7	9	1.002
	200	1.0000	0.0076	0.2622	1.002	1.442	1.000	0.002	5.49	5	7	8	1.002
	300	1.0000	0.0048	0.2552	1.002	1.429	1.000	0.004	5.43	5	7	8	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0152	0.2588	1.002	1.402	1.000	0.003	5.46	5	6	8	1.001
	200	1.0000	0.0069	0.2461	1.002	1.387	1.000	0.003	5.36	5	6	8	1.002
	300	1.0000	0.0044	0.2389	1.002	1.368	1.000	0.008	5.30	5	6	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0129	0.2308	1.001	1.327	1.000	0.010	5.24	5	6	8	1.001
	200	1.0000	0.0061	0.2243	1.002	1.313	1.000	0.011	5.19	5	6	7	1.000
	300	1.0000	0.0039	0.2174	1.001	1.290	1.000	0.020	5.14	5	6	7	1.001

Notes: See notes to Table 55.

Table 157: MC findings for DGPII(b)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9729	0.0045	0.0815	1.015	1.565	0.902	0.582	4.32	3	6	8	1.034
	200	0.9615	0.0022	0.0807	1.019	1.611	0.864	0.568	4.27	3	6	8	1.037
	300	0.9569	0.0016	0.0877	1.023	1.767	0.847	0.521	4.29	3	6	9	1.042
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9624	0.0032	0.0592	1.014	1.528	0.867	0.629	4.15	3	5	7	1.024
	200	0.9481	0.0015	0.0564	1.017	1.598	0.821	0.615	4.08	3	5	8	1.023
	300	0.9399	0.0011	0.0626	1.021	1.752	0.790	0.564	4.07	3	5	8	1.032
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9248	0.0014	0.0279	1.015	1.664	0.750	0.638	3.83	3	5	6	1.011
	200	0.9071	0.0006	0.0258	1.019	1.695	0.695	0.611	3.75	2	5	7	1.011
	300	0.8943	0.0005	0.0301	1.023	1.875	0.657	0.559	3.72	2	5	7	1.018
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9728	0.0042	0.0770	1.013	1.470	0.901	0.598	4.29	3	6	8	1.008
	200	0.9615	0.0020	0.0752	1.017	1.533	0.864	0.586	4.24	3	6	8	1.007
	300	0.9569	0.0014	0.0815	1.020	1.682	0.847	0.544	4.25	3	6	8	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9623	0.0030	0.0562	1.012	1.473	0.867	0.639	4.14	3	5	7	1.007
	200	0.9481	0.0014	0.0532	1.016	1.555	0.821	0.626	4.06	3	5	8	1.006
	300	0.9399	0.0010	0.0578	1.019	1.685	0.790	0.581	4.05	3	5	7	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9245	0.0013	0.0267	1.015	1.640	0.750	0.640	3.83	3	5	6	1.005
	200	0.9071	0.0006	0.0244	1.019	1.671	0.695	0.615	3.74	2	5	7	1.005
	300	0.8941	0.0004	0.0269	1.022	1.833	0.657	0.568	3.70	2	5	7	1.002

Notes: See notes to Table 55.

Table 158: MC findings for DGPII(b)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0108	0.1910	1.004	1.388	1.000	0.189	5.04	4	6	9	1.019
	200	1.0000	0.0049	0.1788	1.004	1.435	1.000	0.236	4.97	4	6	8	1.020
	300	1.0000	0.0032	0.1772	1.004	1.487	1.000	0.247	4.96	4	6	9	1.022
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0092	0.1673	1.003	1.305	1.000	0.248	4.88	4	6	8	1.012
	200	1.0000	0.0042	0.1550	1.003	1.326	1.000	0.306	4.82	4	6	8	1.015
	300	1.0000	0.0027	0.1506	1.003	1.360	1.000	0.321	4.79	4	6	8	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0068	0.1263	1.002	1.197	1.000	0.401	4.65	4	5	8	1.006
	200	1.0000	0.0029	0.1098	1.002	1.186	1.000	0.474	4.56	4	5	6	1.006
	300	1.0000	0.0018	0.1041	1.001	1.210	1.000	0.504	4.53	4	5	7	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0106	0.1887	1.003	1.352	1.000	0.191	5.02	4	6	9	1.004
	200	1.0000	0.0049	0.1765	1.003	1.377	1.000	0.241	4.95	4	6	8	1.005
	300	1.0000	0.0032	0.1742	1.004	1.423	1.000	0.255	4.94	4	6	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0091	0.1658	1.003	1.279	1.000	0.250	4.87	4	6	8	1.002
	200	1.0000	0.0041	0.1532	1.002	1.285	1.000	0.310	4.81	4	6	8	1.003
	300	1.0000	0.0026	0.1487	1.002	1.309	1.000	0.327	4.78	4	6	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0067	0.1256	1.002	1.180	1.000	0.402	4.64	4	5	8	1.001
	200	1.0000	0.0028	0.1089	1.001	1.168	1.000	0.476	4.56	4	5	6	1.001
	300	1.0000	0.0018	0.1035	1.001	1.186	1.000	0.506	4.53	4	5	7	1.000

Notes: See notes to Table 55.

Table 159: MC findings for DGPII(b)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0145	0.2481	1.002	1.516	1.000	0.023	5.39	5	7	10	1.014
	200	1.0000	0.0067	0.2388	1.003	1.533	1.000	0.030	5.32	5	6	8	1.015
	300	1.0000	0.0044	0.2338	1.003	1.520	1.000	0.040	5.29	5	6	8	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0129	0.2281	1.002	1.426	1.000	0.036	5.24	5	6	9	1.008
	200	1.0000	0.0060	0.2201	1.002	1.439	1.000	0.044	5.18	5	6	8	1.014
	300	1.0000	0.0039	0.2173	1.002	1.436	1.000	0.058	5.17	4	6	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0109	0.2007	1.001	1.321	1.000	0.079	5.05	4	6	8	1.004
	200	1.0000	0.0051	0.1930	1.001	1.313	1.000	0.098	5.00	4	6	7	1.005
	300	1.0000	0.0033	0.1868	1.001	1.296	1.000	0.125	4.97	4	6	7	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0144	0.2469	1.002	1.480	1.000	0.023	5.38	5	7	10	1.003
	200	1.0000	0.0067	0.2372	1.002	1.484	1.000	0.030	5.31	5	6	8	1.003
	300	1.0000	0.0043	0.2327	1.002	1.482	1.000	0.040	5.28	5	6	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0128	0.2274	1.002	1.402	1.000	0.036	5.23	5	6	9	1.002
	200	1.0000	0.0060	0.2185	1.002	1.388	1.000	0.044	5.17	5	6	8	1.002
	300	1.0000	0.0039	0.2165	1.002	1.397	1.000	0.058	5.16	4	6	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0109	0.2003	1.001	1.304	1.000	0.079	5.04	4	6	8	1.001
	200	1.0000	0.0051	0.1925	1.001	1.293	1.000	0.098	4.99	4	6	7	1.001
	300	1.0000	0.0033	0.1865	1.001	1.285	1.000	0.126	4.96	4	6	7	1.001

Notes: See notes to Table 55.

Table 160: MC findings for DGPII(b)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7901	0.0033	0.0750	1.026	1.667	0.467	0.332	3.47	1	5	8	1.016
	200	0.7508	0.0017	0.0826	1.032	1.866	0.391	0.273	3.34	1	5	8	1.016
	300	0.7055	0.0012	0.0954	1.041	2.070	0.334	0.237	3.18	1	5	9	1.018
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7385	0.0021	0.0521	1.027	1.684	0.378	0.297	3.16	1	5	8	1.009
	200	0.7074	0.0012	0.0634	1.033	1.876	0.330	0.261	3.06	1	5	7	1.013
	300	0.6556	0.0008	0.0692	1.042	2.084	0.271	0.214	2.86	1	5	7	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6206	0.0009	0.0254	1.038	1.843	0.229	0.201	2.57	0	4	7	1.004
	200	0.5809	0.0004	0.0286	1.045	2.003	0.182	0.165	2.41	0	4	7	1.005
	300	0.5401	0.0003	0.0332	1.051	2.145	0.150	0.138	2.25	0	4	7	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7901	0.0031	0.0720	1.025	1.633	0.467	0.337	3.46	1	5	8	1.001
	200	0.7508	0.0017	0.0795	1.031	1.828	0.391	0.276	3.33	1	5	8	1.002
	300	0.7055	0.0012	0.0914	1.039	2.031	0.334	0.244	3.16	1	5	9	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7385	0.0020	0.0504	1.027	1.669	0.378	0.300	3.15	1	5	8	1.002
	200	0.7074	0.0011	0.0608	1.032	1.828	0.330	0.264	3.05	1	5	7	1.002
	300	0.6556	0.0008	0.0663	1.041	2.056	0.271	0.216	2.84	1	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6206	0.0009	0.0247	1.038	1.832	0.229	0.201	2.57	0	4	7	1.001
	200	0.5809	0.0004	0.0276	1.044	1.984	0.182	0.166	2.41	0	4	7	1.000
	300	0.5400	0.0003	0.0320	1.051	2.126	0.150	0.138	2.25	0	4	7	1.001

Notes: See notes to Table 55.

Table 161: MC findings for DGPII(b)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0066	0.1172	1.003	1.341	0.999	0.490	4.63	4	6	9	1.010
	200	0.9994	0.0030	0.1113	1.004	1.433	0.998	0.512	4.59	4	6	8	1.010
	300	0.9990	0.0020	0.1087	1.005	1.520	0.996	0.530	4.58	4	6	9	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0050	0.0909	1.002	1.255	0.997	0.586	4.48	4	6	8	1.005
	200	0.9991	0.0023	0.0860	1.003	1.316	0.997	0.605	4.45	4	6	7	1.004
	300	0.9979	0.0015	0.0828	1.003	1.386	0.992	0.620	4.43	4	6	8	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9969	0.0029	0.0548	1.001	1.162	0.988	0.731	4.27	4	5	7	1.002
	200	0.9965	0.0012	0.0451	1.001	1.180	0.986	0.769	4.21	4	5	6	1.001
	300	0.9944	0.0008	0.0483	1.002	1.256	0.978	0.752	4.22	4	5	7	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0065	0.1157	1.003	1.318	0.999	0.495	4.62	4	6	9	1.001
	200	0.9994	0.0030	0.1097	1.004	1.407	0.998	0.518	4.58	4	6	8	1.001
	300	0.9990	0.0019	0.1068	1.004	1.481	0.996	0.535	4.57	4	6	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0049	0.0902	1.002	1.244	0.997	0.588	4.47	4	6	8	1.000
	200	0.9991	0.0023	0.0853	1.003	1.305	0.997	0.607	4.44	4	6	7	1.000
	300	0.9979	0.0015	0.0818	1.003	1.365	0.992	0.624	4.42	4	6	8	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9969	0.0029	0.0545	1.001	1.156	0.988	0.732	4.27	4	5	6	1.001
	200	0.9965	0.0012	0.0450	1.001	1.177	0.986	0.770	4.21	4	5	6	1.001
	300	0.9944	0.0008	0.0480	1.002	1.251	0.978	0.753	4.22	4	5	7	1.000

Notes: See notes to Table 55.

Table 162: MC findings for DGPII(b)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0103	0.1834	1.002	1.430	1.000	0.205	4.99	4	6	9	1.009
	200	1.0000	0.0048	0.1744	1.002	1.475	1.000	0.248	4.94	4	6	9	1.007
	300	1.0000	0.0030	0.1648	1.003	1.433	1.000	0.279	4.88	4	6	8	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0088	0.1596	1.002	1.338	1.000	0.280	4.84	4	6	8	1.005
	200	1.0000	0.0040	0.1493	1.002	1.369	1.000	0.325	4.79	4	6	7	1.006
	300	1.0000	0.0025	0.1397	1.002	1.328	1.000	0.360	4.73	4	6	8	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0061	0.1152	1.001	1.201	1.000	0.452	4.59	4	5	7	1.001
	200	1.0000	0.0027	0.1025	1.001	1.204	1.000	0.507	4.52	4	5	7	1.001
	300	1.0000	0.0017	0.0985	1.001	1.203	1.000	0.525	4.50	4	5	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0102	0.1823	1.002	1.393	1.000	0.207	4.98	4	6	9	1.001
	200	1.0000	0.0048	0.1734	1.002	1.445	1.000	0.250	4.93	4	6	9	1.000
	300	1.0000	0.0030	0.1643	1.003	1.422	1.000	0.281	4.88	4	6	8	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0087	0.1589	1.002	1.318	1.000	0.282	4.84	4	6	8	1.001
	200	1.0000	0.0040	0.1485	1.001	1.348	1.000	0.327	4.78	4	6	7	1.000
	300	1.0000	0.0025	0.1391	1.002	1.316	1.000	0.361	4.73	4	6	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0061	0.1152	1.001	1.201	1.000	0.452	4.59	4	5	7	1.001
	200	1.0000	0.0027	0.1023	1.001	1.199	1.000	0.508	4.52	4	5	7	1.000
	300	1.0000	0.0017	0.0984	1.001	1.203	1.000	0.526	4.50	4	5	7	1.000

Notes: See notes to Table 55.

4.3 Findings for designs with zero net signal effects

Table 163: MC findings for DGPIII

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9964	0.0020	0.0381	1.010	1.845	0.987	0.817	4.18	4	5	7	2.009
	200	0.9963	0.0011	0.0411	1.011	1.788	0.986	0.808	4.20	4	5	7	2.014
	300	0.9949	0.0009	0.0504	1.015	2.239	0.983	0.764	4.25	4	5	8	2.036
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9944	0.0011	0.0216	1.009	2.112	0.981	0.884	4.09	4	5	7	2.013
	200	0.9944	0.0007	0.0254	1.010	1.837	0.979	0.868	4.11	4	5	7	2.021
	300	0.9923	0.0005	0.0298	1.014	2.350	0.972	0.837	4.12	4	5	7	2.037
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9874	0.0003	0.0063	1.013	2.847	0.960	0.931	3.98	4	4	6	2.025
	200	0.9855	0.0002	0.0073	1.013	2.800	0.950	0.919	3.98	4	4	6	2.028
	300	0.9780	0.0002	0.0093	1.022	3.853	0.934	0.891	3.96	3	4	6	2.033
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9949	0.0017	0.0315	1.010	2.047	0.982	0.843	4.14	4	5	6	1.985
	200	0.9938	0.0009	0.0345	1.010	2.096	0.976	0.827	4.16	4	5	7	1.982
	300	0.9919	0.0007	0.0423	1.015	2.677	0.973	0.786	4.19	4	5	7	1.994
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9928	0.0009	0.0173	1.009	2.308	0.976	0.899	4.06	4	5	6	1.994
	200	0.9909	0.0005	0.0204	1.011	2.353	0.966	0.877	4.07	4	5	6	1.991
	300	0.9875	0.0004	0.0243	1.015	3.004	0.959	0.849	4.07	4	5	7	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9833	0.0002	0.0047	1.016	3.244	0.946	0.925	3.96	3	4	6	2.004
	200	0.9813	0.0001	0.0058	1.016	3.176	0.935	0.909	3.95	3	4	6	2.008
	300	0.9694	0.0001	0.0059	1.028	4.668	0.910	0.882	3.91	3	4	6	1.992

Notes: See notes to Table 64.

Table 164: MC findings for DGPIII

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0277	1.002	1.160	1.000	0.871	4.14	4	5	7	1.989
	200	1.0000	0.0007	0.0271	1.002	1.177	1.000	0.873	4.14	4	5	7	1.989
	300	1.0000	0.0005	0.0274	1.002	1.159	1.000	0.873	4.14	4	5	7	1.999
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0148	1.001	1.106	1.000	0.928	4.07	4	5	6	1.989
	200	1.0000	0.0004	0.0158	1.001	1.121	1.000	0.925	4.08	4	5	6	1.989
	300	1.0000	0.0003	0.0150	1.001	1.103	1.000	0.928	4.08	4	5	6	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0038	1.000	1.037	1.000	0.981	4.02	4	4	5	1.994
	200	1.0000	0.0001	0.0041	1.000	1.039	1.000	0.980	4.02	4	4	6	1.994
	300	1.0000	0.0001	0.0039	1.000	1.039	1.000	0.981	4.02	4	4	6	1.998
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0232	1.001	1.106	1.000	0.891	4.12	4	5	7	1.974
	200	1.0000	0.0006	0.0241	1.001	1.124	1.000	0.887	4.12	4	5	7	1.979
	300	1.0000	0.0004	0.0235	1.001	1.096	1.000	0.889	4.12	4	5	7	1.986
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0123	1.001	1.072	1.000	0.940	4.06	4	5	6	1.981
	200	1.0000	0.0004	0.0140	1.001	1.083	1.000	0.933	4.07	4	5	6	1.983
	300	1.0000	0.0002	0.0125	1.001	1.063	1.000	0.939	4.06	4	5	6	1.991
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0002	0.0029	1.000	1.022	1.000	0.986	4.01	4	4	5	1.991
	200	1.0000	0.0001	0.0035	1.000	1.022	1.000	0.983	4.02	4	4	6	1.992
	300	1.0000	0.0001	0.0033	1.000	1.028	1.000	0.984	4.02	4	4	6	1.996

Notes: See notes to Table 64.

Table 165: MC findings for DGPIII

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0234	1.001	1.150	1.000	0.892	4.12	4	5	7	1.980
	200	1.0000	0.0007	0.0256	1.001	1.147	1.000	0.883	4.13	4	5	8	1.991
	300	1.0000	0.0004	0.0224	1.001	1.146	1.000	0.893	4.11	4	5	6	1.990
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0006	0.0117	1.000	1.089	1.000	0.945	4.06	4	5	7	1.982
	200	1.0000	0.0003	0.0124	1.001	1.088	1.000	0.942	4.06	4	5	7	1.988
	300	1.0000	0.0002	0.0122	1.001	1.093	1.000	0.941	4.06	4	5	6	1.993
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0032	1.000	1.032	1.000	0.985	4.02	4	4	6	1.990
	200	1.0000	0.0001	0.0029	1.000	1.033	1.000	0.986	4.01	4	4	5	1.992
	300	1.0000	0.0000	0.0024	1.000	1.025	1.000	0.988	4.01	4	4	5	1.996
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0010	0.0190	1.000	1.082	1.000	0.911	4.10	4	5	7	1.967
	200	1.0000	0.0006	0.0221	1.001	1.089	1.000	0.899	4.12	4	5	8	1.980
	300	1.0000	0.0003	0.0198	1.001	1.099	1.000	0.905	4.10	4	5	6	1.981
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0090	1.000	1.041	1.000	0.957	4.05	4	4	7	1.975
	200	1.0000	0.0003	0.0110	1.000	1.056	1.000	0.948	4.06	4	5	7	1.983
	300	1.0000	0.0002	0.0103	1.000	1.058	1.000	0.950	4.05	4	5	6	1.987
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0025	1.000	1.019	1.000	0.988	4.01	4	4	6	1.987
	200	1.0000	0.0001	0.0024	1.000	1.019	1.000	0.988	4.01	4	4	5	1.990
	300	1.0000	0.0000	0.0018	1.000	1.009	1.000	0.991	4.01	4	4	5	1.994

Notes: See notes to Table 64.

Table 166: MC findings for DGPIII

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9316	0.0020	0.0386	1.035	3.627	0.803	0.678	3.92	3	5	8	1.928
	200	0.8960	0.0011	0.0488	1.053	4.442	0.731	0.587	3.81	2	5	8	1.875
	300	0.8860	0.0007	0.0484	1.057	4.626	0.703	0.575	3.76	2	5	8	1.861
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9086	0.0011	0.0218	1.041	4.155	0.759	0.689	3.74	2	5	8	1.893
	200	0.8668	0.0007	0.0307	1.061	4.923	0.670	0.587	3.60	1	5	8	1.831
	300	0.8534	0.0005	0.0324	1.067	5.168	0.643	0.561	3.55	1	5	6	1.821
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8323	0.0004	0.0077	1.067	5.650	0.623	0.598	3.36	1	4	6	1.799
	200	0.7726	0.0002	0.0125	1.091	6.437	0.518	0.499	3.13	1	4	5	1.686
	300	0.7691	0.0001	0.0114	1.095	6.478	0.508	0.487	3.12	0	4	6	1.702
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9129	0.0017	0.0344	1.044	4.245	0.753	0.652	3.81	2	5	8	1.838
	200	0.8673	0.0010	0.0444	1.068	5.235	0.649	0.540	3.66	2	5	7	1.744
	300	0.8574	0.0006	0.0449	1.073	5.415	0.628	0.531	3.62	1	5	8	1.733
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8875	0.0009	0.0196	1.051	4.782	0.705	0.649	3.64	2	5	8	1.801
	200	0.8351	0.0006	0.0281	1.077	5.698	0.585	0.527	3.46	1	5	7	1.695
	300	0.8223	0.0004	0.0304	1.083	5.916	0.565	0.503	3.41	1	5	6	1.687
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8084	0.0003	0.0064	1.080	6.187	0.563	0.545	3.26	1	4	6	1.701
	200	0.7423	0.0002	0.0113	1.106	6.997	0.448	0.435	3.01	1	4	5	1.562
	300	0.7334	0.0001	0.0111	1.114	7.171	0.427	0.412	2.97	0	4	6	1.556

Notes: See notes to Table 64.

Table 167: MC findings for DGPIII

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0290	1.002	1.186	1.000	0.867	4.15	4	5	7	1.995
	200	1.0000	0.0007	0.0258	1.002	1.211	1.000	0.880	4.13	4	5	7	2.000
	300	1.0000	0.0005	0.0289	1.002	1.217	1.000	0.866	4.15	4	5	7	2.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0164	1.001	1.123	1.000	0.921	4.08	4	5	6	1.999
	200	1.0000	0.0004	0.0150	1.002	1.154	1.000	0.927	4.08	4	5	6	2.000
	300	1.0000	0.0003	0.0166	1.001	1.146	1.000	0.922	4.09	4	5	7	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0002	0.0033	1.000	1.044	1.000	0.984	4.02	4	4	6	2.000
	200	1.0000	0.0001	0.0045	1.001	1.086	1.000	0.978	4.02	4	4	6	2.003
	300	0.9998	0.0001	0.0044	1.001	1.197	0.999	0.978	4.02	4	4	6	1.998
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0256	1.002	1.144	1.000	0.882	4.13	4	5	7	1.983
	200	1.0000	0.0006	0.0236	1.002	1.170	1.000	0.890	4.12	4	5	7	1.991
	300	0.9999	0.0005	0.0266	1.002	1.282	1.000	0.876	4.14	4	5	7	1.991
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0135	1.001	1.085	1.000	0.935	4.07	4	5	6	1.989
	200	1.0000	0.0003	0.0131	1.001	1.115	1.000	0.937	4.07	4	5	6	1.994
	300	0.9999	0.0003	0.0149	1.001	1.229	1.000	0.930	4.08	4	5	7	1.994
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0023	1.000	1.024	1.000	0.989	4.01	4	4	6	1.996
	200	0.9999	0.0001	0.0034	1.001	1.187	1.000	0.983	4.02	4	4	6	1.999
	300	0.9998	0.0001	0.0040	1.001	1.190	0.999	0.980	4.02	4	4	6	1.996

Notes: See notes to Table 64.

Table 168: MC findings for DGPIII

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0256	1.001	1.153	1.000	0.879	4.13	4	5	6	1.990
	200	1.0000	0.0007	0.0260	1.001	1.217	1.000	0.878	4.13	4	5	7	2.000
	300	1.0000	0.0005	0.0268	1.001	1.217	1.000	0.876	4.14	4	5	7	1.999
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0131	1.001	1.085	1.000	0.938	4.07	4	5	6	1.990
	200	1.0000	0.0004	0.0145	1.001	1.143	1.000	0.929	4.07	4	5	6	2.000
	300	1.0000	0.0002	0.0128	1.001	1.116	1.000	0.942	4.07	4	5	6	1.995
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0001	0.0026	1.000	1.016	1.000	0.988	4.01	4	4	6	1.997
	200	1.0000	0.0001	0.0037	1.000	1.056	1.000	0.982	4.02	4	4	6	2.000
	300	1.0000	0.0001	0.0032	1.000	1.035	1.000	0.985	4.02	4	4	6	1.997
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0227	1.001	1.109	1.000	0.893	4.12	4	5	6	1.981
	200	1.0000	0.0006	0.0233	1.001	1.164	1.000	0.891	4.12	4	5	7	1.989
	300	1.0000	0.0004	0.0245	1.001	1.168	1.000	0.887	4.13	4	5	7	1.990
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0006	0.0117	1.000	1.061	1.000	0.945	4.06	4	5	6	1.986
	200	1.0000	0.0003	0.0130	1.001	1.103	1.000	0.937	4.07	4	5	6	1.993
	300	1.0000	0.0002	0.0116	1.001	1.085	1.000	0.948	4.06	4	5	6	1.990
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0001	0.0024	1.000	1.011	1.000	0.989	4.01	4	4	6	1.996
	200	1.0000	0.0001	0.0031	1.000	1.038	1.000	0.985	4.02	4	4	6	1.997
	300	1.0000	0.0001	0.0029	1.000	1.027	1.000	0.987	4.02	4	4	6	1.996

Notes: See notes to Table 64.

Table 169: MC findings for DGPIII

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6040	0.0019	0.0640	1.075	4.208	0.256	0.220	2.60	0	4	7	1.398
	200	0.5168	0.0011	0.0818	1.091	4.515	0.163	0.135	2.28	0	4	6	1.281
	300	0.4864	0.0008	0.0998	1.098	4.847	0.148	0.117	2.20	0	4	8	1.259
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5314	0.0011	0.0436	1.084	4.479	0.185	0.167	2.24	0	4	6	1.308
	200	0.4620	0.0006	0.0544	1.095	4.655	0.127	0.112	1.97	0	4	6	1.232
	300	0.4305	0.0005	0.0640	1.102	4.948	0.113	0.102	1.87	0	4	7	1.201
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3923	0.0003	0.0169	1.102	5.013	0.089	0.086	1.60	0	4	6	1.165
	200	0.3359	0.0002	0.0242	1.112	5.072	0.057	0.055	1.38	0	4	5	1.112
	300	0.3155	0.0001	0.0245	1.116	5.283	0.047	0.047	1.31	0	4	5	1.104
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5656	0.0018	0.0630	1.084	4.445	0.168	0.149	2.43	0	4	6	1.238
	200	0.4891	0.0011	0.0811	1.096	4.661	0.113	0.096	2.16	0	4	6	1.164
	300	0.4585	0.0008	0.0992	1.104	4.989	0.087	0.071	2.07	0	4	8	1.139
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5011	0.0011	0.0427	1.090	4.642	0.122	0.111	2.11	0	4	6	1.184
	200	0.4375	0.0006	0.0545	1.100	4.778	0.085	0.077	1.87	0	4	6	1.131
	300	0.4073	0.0005	0.0639	1.107	5.065	0.061	0.056	1.77	0	4	7	1.104
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3761	0.0003	0.0162	1.105	5.085	0.061	0.059	1.53	0	4	6	1.099
	200	0.3229	0.0002	0.0237	1.114	5.125	0.039	0.038	1.33	0	3	5	1.058
	300	0.3038	0.0001	0.0238	1.119	5.329	0.027	0.027	1.26	0	3	4	1.055

Notes: See notes to Table 64.

Table 170: MC findings for DGPIII

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9975	0.0015	0.0275	1.003	1.529	0.991	0.866	4.13	4	5	8	1.994
	200	0.9951	0.0007	0.0276	1.004	1.791	0.981	0.856	4.12	4	5	7	1.990
	300	0.9928	0.0005	0.0261	1.004	2.013	0.975	0.860	4.11	4	5	7	1.986
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9966	0.0009	0.0165	1.002	1.564	0.988	0.912	4.07	4	5	7	1.994
	200	0.9929	0.0004	0.0152	1.003	1.940	0.974	0.904	4.05	4	5	6	1.984
	300	0.9894	0.0002	0.0142	1.004	2.166	0.962	0.900	4.03	4	5	7	1.980
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9875	0.0002	0.0041	1.003	2.255	0.956	0.938	3.97	4	4	6	1.976
	200	0.9843	0.0001	0.0038	1.004	2.441	0.946	0.930	3.96	3	4	6	1.973
	300	0.9801	0.0001	0.0035	1.004	2.652	0.931	0.915	3.94	3	4	5	1.967
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9935	0.0014	0.0254	1.003	2.112	0.976	0.863	4.11	4	5	8	1.972
	200	0.9909	0.0007	0.0260	1.005	2.329	0.965	0.851	4.10	4	5	7	1.966
	300	0.9858	0.0004	0.0246	1.006	2.770	0.947	0.846	4.07	4	5	7	1.953
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9913	0.0008	0.0152	1.004	2.285	0.967	0.898	4.04	4	5	7	1.967
	200	0.9876	0.0004	0.0147	1.005	2.557	0.954	0.889	4.02	4	5	6	1.960
	300	0.9805	0.0002	0.0134	1.006	3.046	0.928	0.873	3.99	3	5	7	1.942
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9811	0.0002	0.0037	1.005	2.917	0.934	0.918	3.94	3	4	6	1.949
	200	0.9733	0.0001	0.0033	1.007	3.418	0.905	0.892	3.91	3	4	6	1.927
	300	0.9639	0.0000	0.0031	1.009	3.940	0.876	0.862	3.87	3	4	5	1.901

Notes: See notes to Table 64.

Table 171: MC findings for DGPIII

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0222	1.001	1.190	1.000	0.894	4.11	4	5	6	1.994
	200	1.0000	0.0006	0.0239	1.001	1.213	1.000	0.890	4.12	4	5	7	1.999
	300	1.0000	0.0004	0.0241	1.001	1.268	1.000	0.889	4.13	4	5	7	2.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0102	1.001	1.107	1.000	0.952	4.05	4	4	6	1.993
	200	1.0000	0.0003	0.0115	1.001	1.121	1.000	0.946	4.06	4	5	7	2.000
	300	1.0000	0.0002	0.0127	1.001	1.165	1.000	0.941	4.07	4	5	7	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0002	0.0029	1.000	1.110	1.000	0.985	4.01	4	4	5	1.998
	200	0.9999	0.0001	0.0026	1.000	1.047	1.000	0.987	4.01	4	4	6	1.999
	300	1.0000	0.0001	0.0036	1.000	1.065	1.000	0.982	4.02	4	4	5	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0209	1.001	1.163	1.000	0.900	4.11	4	5	6	1.988
	200	1.0000	0.0006	0.0233	1.001	1.202	1.000	0.893	4.12	4	5	7	1.996
	300	1.0000	0.0004	0.0227	1.001	1.235	1.000	0.895	4.12	4	5	7	1.998
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0094	1.001	1.090	1.000	0.955	4.05	4	4	6	1.991
	200	1.0000	0.0003	0.0109	1.001	1.111	1.000	0.949	4.06	4	5	7	1.998
	300	1.0000	0.0002	0.0121	1.001	1.151	1.000	0.944	4.06	4	5	7	1.999
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0001	0.0024	1.000	1.101	1.000	0.988	4.01	4	4	5	1.996
	200	0.9999	0.0001	0.0026	1.000	1.047	1.000	0.987	4.01	4	4	6	1.999
	300	0.9999	0.0001	0.0033	1.000	1.125	1.000	0.983	4.02	4	4	5	1.999

Notes: See notes to Table 64.

4.4 Findings for designs with zero net signal effects and pseudo-signals

Table 172: MC findings for DGPIV(a)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9981	0.0202	0.3172	1.019	2.121	0.993	0.024	0.779	0.649	5.93	5	7	9	2.010
	200	0.9955	0.0099	0.3176	1.022	2.572	0.982	0.025	0.750	0.594	5.93	5	7	11	2.023
	300	0.9945	0.0064	0.3092	1.022	2.596	0.980	0.034	0.710	0.582	5.86	4.5	7	10	2.024
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9961	0.0186	0.2999	1.017	2.284	0.987	0.036	0.722	0.647	5.77	5	7	9	2.011
	200	0.9938	0.0091	0.2985	1.020	2.677	0.976	0.037	0.690	0.602	5.76	4	7	10	2.024
	300	0.9915	0.0058	0.2895	1.021	2.843	0.969	0.048	0.649	0.577	5.68	4	7	10	2.026
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9858	0.0160	0.2661	1.021	3.224	0.955	0.076	0.591	0.574	5.48	4	6	8	2.022
	200	0.9840	0.0076	0.2608	1.024	3.547	0.946	0.083	0.556	0.536	5.43	4	6	8	2.021
	300	0.9758	0.0048	0.2485	1.030	4.337	0.927	0.097	0.498	0.481	5.31	4	6	8	2.024
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9964	0.0198	0.3141	1.018	2.366	0.988	0.023	0.779	0.669	5.89	5	7	9	1.983
	200	0.9925	0.0097	0.3133	1.022	2.945	0.972	0.027	0.747	0.619	5.87	5	7	10	1.984
	300	0.9914	0.0062	0.3058	1.022	3.030	0.970	0.034	0.706	0.601	5.81	4	7	10	1.988
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9936	0.0184	0.2978	1.018	2.697	0.981	0.036	0.720	0.661	5.74	4	7	8	1.989
	200	0.9904	0.0089	0.2950	1.021	3.114	0.965	0.037	0.687	0.618	5.71	4	7	9	1.988
	300	0.9864	0.0057	0.2872	1.023	3.459	0.954	0.044	0.644	0.586	5.63	4	7	10	1.994
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9815	0.0158	0.2653	1.024	3.775	0.942	0.075	0.586	0.573	5.45	4	6	8	2.003
	200	0.9781	0.0076	0.2604	1.029	4.320	0.929	0.080	0.551	0.537	5.40	4	6	8	1.994
	300	0.9686	0.0047	0.2479	1.036	4.984	0.909	0.091	0.494	0.481	5.28	4	6	8	1.995

Notes: See notes to Table 46.

Table 173: MC findings for DGPIV(a)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0223	0.3465	1.005	2.001	1.000	0.000	1.000	0.875	6.14	6	7	9	1.996
	200	1.0000	0.0110	0.3476	1.005	1.979	1.000	0.000	1.000	0.862	6.15	6	7	9	1.990
	300	1.0000	0.0072	0.3456	1.005	2.034	1.000	0.000	1.000	0.877	6.13	6	7	9	1.990
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0216	0.3405	1.005	1.957	1.000	0.000	1.000	0.931	6.08	6	7	9	1.997
	200	1.0000	0.0106	0.3410	1.004	1.911	1.000	0.000	1.000	0.923	6.08	6	7	8	1.993
	300	1.0000	0.0070	0.3398	1.005	1.982	1.000	0.000	1.000	0.933	6.07	6	7	8	1.993
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0211	0.3355	1.004	1.902	1.000	0.000	1.000	0.978	6.02	6	6	8	1.999
	200	1.0000	0.0103	0.3351	1.004	1.859	1.000	0.000	1.000	0.981	6.02	6	6	8	1.998
	300	1.0000	0.0068	0.3342	1.004	1.909	1.000	0.000	0.999	0.987	6.01	6	6	7	1.994
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0221	0.3445	1.005	1.948	1.000	0.000	1.000	0.895	6.12	6	7	9	1.982
	200	1.0000	0.0109	0.3460	1.005	1.944	1.000	0.000	1.000	0.876	6.14	6	7	9	1.981
	300	1.0000	0.0071	0.3440	1.005	1.976	1.000	0.000	1.000	0.892	6.11	6	7	9	1.980
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3388	1.004	1.912	1.000	0.000	1.000	0.948	6.06	6	7	9	1.985
	200	1.0000	0.0106	0.3399	1.004	1.893	1.000	0.000	1.000	0.934	6.07	6	7	8	1.988
	300	1.0000	0.0069	0.3386	1.004	1.931	1.000	0.000	1.000	0.945	6.06	6	7	8	1.988
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3350	1.004	1.871	1.000	0.000	1.000	0.983	6.02	6	6	8	1.996
	200	1.0000	0.0103	0.3347	1.004	1.848	1.000	0.000	1.000	0.985	6.01	6	6	8	1.995
	300	1.0000	0.0068	0.3341	1.004	1.897	1.000	0.000	0.999	0.989	6.01	6	6	7	1.993

Notes: See notes to Table 46.

Table 174: MC findings for DGPIV(a)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3443	1.003	1.939	1.000	0.000	1.000	0.891	6.12	6	7	9	1.976
	200	1.0000	0.0108	0.3443	1.003	1.967	1.000	0.000	1.000	0.892	6.12	6	7	9	1.991
	300	1.0000	0.0072	0.3448	1.003	1.947	1.000	0.000	1.000	0.889	6.12	6	7	9	1.997
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3394	1.002	1.902	1.000	0.000	1.000	0.939	6.06	6	7	8	1.980
	200	1.0000	0.0105	0.3389	1.002	1.926	1.000	0.000	1.000	0.943	6.06	6	7	8	1.995
	300	1.0000	0.0069	0.3386	1.003	1.876	1.000	0.000	1.000	0.948	6.06	6	7	8	1.996
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3348	1.002	1.857	1.000	0.000	1.000	0.985	6.02	6	6	8	1.992
	200	1.0000	0.0103	0.3347	1.002	1.866	1.000	0.000	1.000	0.987	6.01	6	6	8	1.996
	300	1.0000	0.0068	0.3345	1.002	1.823	1.000	0.000	1.000	0.989	6.01	6	6	8	1.997
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3427	1.003	1.904	1.000	0.000	1.000	0.908	6.10	6	7	9	1.967
	200	1.0000	0.0107	0.3432	1.002	1.935	1.000	0.000	1.000	0.904	6.11	6	7	9	1.982
	300	1.0000	0.0071	0.3435	1.003	1.895	1.000	0.000	1.000	0.900	6.11	6	7	9	1.987
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3383	1.002	1.874	1.000	0.000	1.000	0.950	6.05	6	6.5	8	1.975
	200	1.0000	0.0105	0.3380	1.002	1.896	1.000	0.000	1.000	0.952	6.05	6	6	8	1.988
	300	1.0000	0.0069	0.3381	1.002	1.853	1.000	0.000	1.000	0.953	6.05	6	6	8	1.991
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3346	1.002	1.846	1.000	0.000	1.000	0.988	6.01	6	6	8	1.990
	200	1.0000	0.0103	0.3343	1.002	1.855	1.000	0.000	1.000	0.990	6.01	6	6	7	1.993
	300	1.0000	0.0068	0.3341	1.002	1.815	1.000	0.000	1.000	0.992	6.01	6	6	8	1.995

Notes: See notes to Table 46.

Table 175: MC findings for DGPIV(a)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9343	0.0167	0.2807	1.040	3.893	0.806	0.050	0.506	0.430	5.34	3	7	9	1.927
	200	0.9021	0.0076	0.2670	1.055	4.735	0.733	0.064	0.408	0.336	5.10	2	7	9	1.885
	300	0.8726	0.0048	0.2649	1.068	5.052	0.673	0.068	0.347	0.275	4.92	2	7	9	1.850
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9111	0.0147	0.2564	1.045	4.338	0.760	0.074	0.427	0.388	5.05	2	6	9	1.900
	200	0.8726	0.0066	0.2434	1.063	5.287	0.681	0.074	0.342	0.306	4.79	2	6	9	1.845
	300	0.8386	0.0041	0.2330	1.077	5.562	0.615	0.086	0.282	0.247	4.55	1	6	8	1.795
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8305	0.0111	0.2099	1.073	5.808	0.612	0.097	0.267	0.260	4.39	1	6	8	1.782
	200	0.7838	0.0049	0.1950	1.092	6.776	0.528	0.092	0.204	0.195	4.09	1	6	8	1.713
	300	0.7425	0.0029	0.1820	1.106	6.864	0.469	0.097	0.170	0.163	3.83	0	6	7	1.659
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9108	0.0164	0.2832	1.052	4.741	0.739	0.046	0.469	0.410	5.22	3	7	9	1.820
	200	0.8745	0.0074	0.2699	1.070	5.693	0.662	0.060	0.367	0.314	4.96	2	7	9	1.759
	300	0.8401	0.0047	0.2674	1.084	5.938	0.588	0.057	0.308	0.253	4.75	2	7	9	1.701
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8834	0.0145	0.2597	1.060	5.246	0.682	0.064	0.390	0.363	4.92	2	6	8	1.780
	200	0.8426	0.0065	0.2471	1.079	6.187	0.606	0.070	0.304	0.277	4.65	1	6	9	1.716
	300	0.8045	0.0040	0.2369	1.095	6.394	0.527	0.078	0.243	0.218	4.40	1	6	8	1.651
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8029	0.0110	0.2142	1.088	6.505	0.546	0.091	0.236	0.231	4.27	1	6	8	1.669
	200	0.7551	0.0048	0.1986	1.107	7.409	0.461	0.082	0.177	0.171	3.96	1	6	7	1.594
	300	0.7094	0.0029	0.1867	1.123	7.512	0.394	0.082	0.146	0.142	3.69	0	6	7	1.523

Notes: See notes to Table 46.

Table 176: MC findings for DGPIV(a)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0221	0.3445	1.006	2.036	1.000	0.000	0.998	0.888	6.12	6	7	9	1.997
	200	1.0000	0.0109	0.3461	1.006	2.128	1.000	0.000	0.995	0.867	6.14	6	7	9	1.998
	300	1.0000	0.0072	0.3461	1.005	2.049	1.000	0.000	0.996	0.866	6.14	6	7	9	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0215	0.3393	1.005	2.006	1.000	0.000	0.997	0.934	6.06	6	7	8	1.995
	200	1.0000	0.0106	0.3404	1.005	2.062	1.000	0.000	0.993	0.914	6.08	6	7	9	1.999
	300	1.0000	0.0070	0.3388	1.004	1.968	1.000	0.001	0.993	0.928	6.06	6	7	8	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3340	1.004	1.936	1.000	0.000	0.990	0.970	6.01	6	6	8	1.997
	200	1.0000	0.0102	0.3321	1.004	1.943	1.000	0.001	0.979	0.961	6.00	6	6	8	1.998
	300	1.0000	0.0068	0.3324	1.004	1.900	1.000	0.002	0.983	0.965	6.00	6	6	8	1.999
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3433	1.005	1.994	1.000	0.000	0.998	0.898	6.11	6	7	9	1.987
	200	1.0000	0.0108	0.3445	1.006	2.059	1.000	0.000	0.995	0.881	6.12	6	7	9	1.988
	300	1.0000	0.0072	0.3446	1.005	2.013	1.000	0.000	0.996	0.881	6.12	6	7	9	1.991
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0214	0.3386	1.005	1.969	1.000	0.000	0.997	0.940	6.06	6	7	8	1.991
	200	1.0000	0.0105	0.3393	1.005	2.006	1.000	0.000	0.993	0.924	6.07	6	7	8	1.991
	300	1.0000	0.0069	0.3378	1.004	1.942	1.000	0.001	0.993	0.938	6.05	6	7	8	1.994
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0209	0.3337	1.004	1.918	1.000	0.000	0.990	0.973	6.01	6	6	8	1.996
	200	0.9999	0.0102	0.3318	1.004	2.002	1.000	0.001	0.978	0.964	5.99	6	6	8	1.995
	300	1.0000	0.0067	0.3322	1.004	1.896	1.000	0.002	0.983	0.967	6.00	6	6	8	1.997

Notes: See notes to Table 46.

Table 177: MC findings for DGPIV(a)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0222	0.3457	1.003	2.039	1.000	0.000	1.000	0.881	6.13	6	7	9	1.991
	200	1.0000	0.0109	0.3457	1.003	1.968	1.000	0.000	1.000	0.879	6.13	6	7	9	1.993
	300	1.0000	0.0072	0.3452	1.003	1.953	1.000	0.000	1.000	0.884	6.13	6	7	9	1.994
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0216	0.3404	1.003	1.990	1.000	0.000	1.000	0.931	6.08	6	7	9	1.991
	200	1.0000	0.0106	0.3404	1.003	1.925	1.000	0.000	1.000	0.930	6.08	6	7	8	1.996
	300	1.0000	0.0070	0.3398	1.003	1.885	1.000	0.000	1.000	0.936	6.07	6	7	9	1.995
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0210	0.3345	1.002	1.893	1.000	0.000	1.000	0.988	6.01	6	6	7	1.993
	200	1.0000	0.0103	0.3355	1.002	1.865	1.000	0.000	1.000	0.978	6.02	6	6	8	1.997
	300	1.0000	0.0068	0.3348	1.002	1.832	1.000	0.000	1.000	0.985	6.02	6	6	7	1.999
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3440	1.003	1.975	1.000	0.000	1.000	0.896	6.11	6	7	9	1.979
	200	1.0000	0.0108	0.3450	1.003	1.951	1.000	0.000	1.000	0.885	6.13	6	7	9	1.989
	300	1.0000	0.0072	0.3446	1.003	1.935	1.000	0.000	1.000	0.890	6.12	6	7	9	1.992
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0215	0.3392	1.003	1.939	1.000	0.000	1.000	0.943	6.06	6	7	9	1.984
	200	1.0000	0.0105	0.3396	1.003	1.901	1.000	0.000	1.000	0.937	6.07	6	7	8	1.992
	300	1.0000	0.0070	0.3395	1.003	1.877	1.000	0.000	1.000	0.939	6.07	6	7	9	1.993
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0210	0.3345	1.002	1.893	1.000	0.000	1.000	0.988	6.01	6	6	7	1.993
	200	1.0000	0.0103	0.3352	1.002	1.856	1.000	0.000	1.000	0.982	6.02	6	6	8	1.996
	300	1.0000	0.0068	0.3346	1.002	1.827	1.000	0.000	1.000	0.987	6.01	6	6	7	1.999

Notes: See notes to Table 46.

Table 178: MC findings for DGPIV(a)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5905	0.0101	0.2386	1.080	4.350	0.239	0.034	0.107	0.094	3.33	0	6	8	1.382
	200	0.5209	0.0044	0.2355	1.093	4.844	0.168	0.026	0.058	0.048	2.94	0	6	10	1.295
	300	0.4918	0.0028	0.2377	1.101	5.111	0.136	0.022	0.047	0.033	2.81	0	6	8	1.233
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5273	0.0080	0.2045	1.087	4.541	0.183	0.032	0.071	0.067	2.88	0	6	8	1.301
	200	0.4609	0.0034	0.1978	1.098	4.976	0.131	0.031	0.043	0.040	2.51	0	6	9	1.235
	300	0.4330	0.0022	0.1979	1.105	5.191	0.103	0.023	0.028	0.022	2.37	0	5	8	1.177
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3960	0.0050	0.1447	1.105	4.969	0.092	0.027	0.023	0.023	2.07	0	5	7	1.168
	200	0.3381	0.0020	0.1413	1.112	5.313	0.060	0.021	0.013	0.013	1.75	0	5	6	1.124
	300	0.3135	0.0012	0.1253	1.118	5.471	0.047	0.014	0.010	0.009	1.62	0	5	7	1.089
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5576	0.0100	0.2438	1.087	4.574	0.170	0.026	0.076	0.069	3.19	0	6	8	1.243
	200	0.4909	0.0043	0.2412	1.098	5.044	0.106	0.020	0.031	0.026	2.81	0	6	10	1.170
	300	0.4651	0.0028	0.2422	1.107	5.279	0.079	0.017	0.029	0.022	2.69	0	6	8	1.119
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5006	0.0080	0.2094	1.093	4.712	0.130	0.024	0.051	0.050	2.77	0	6	7	1.192
	200	0.4339	0.0034	0.2028	1.104	5.150	0.079	0.022	0.020	0.020	2.40	0	5	8	1.124
	300	0.4126	0.0021	0.2007	1.109	5.311	0.061	0.014	0.017	0.014	2.28	0	5	8	1.091
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3806	0.0050	0.1471	1.107	5.056	0.068	0.021	0.018	0.017	2.00	0	5	7	1.106
	200	0.3243	0.0020	0.1433	1.115	5.386	0.035	0.012	0.007	0.007	1.70	0	5	6	1.068
	300	0.3036	0.0012	0.1261	1.120	5.514	0.028	0.010	0.005	0.004	1.58	0	5	7	1.047

Notes: See notes to Table 46.

Table 179: MC findings for DGPIV(a)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9973	0.0211	0.3321	1.006	2.271	0.989	0.005	0.897	0.795	6.01	5	7	8	1.995
	200	0.9940	0.0102	0.3299	1.007	2.512	0.978	0.006	0.866	0.754	5.98	5	7	8	1.982
	300	0.9929	0.0067	0.3266	1.008	2.680	0.973	0.010	0.830	0.705	5.96	5	7	9	1.986
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9954	0.0200	0.3211	1.005	2.285	0.982	0.010	0.851	0.795	5.91	5	7	8	1.992
	200	0.9916	0.0096	0.3156	1.006	2.591	0.969	0.016	0.811	0.751	5.85	5	7	8	1.980
	300	0.9881	0.0063	0.3139	1.008	2.971	0.957	0.020	0.779	0.704	5.83	5	7	8	1.974
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9878	0.0181	0.2972	1.006	2.687	0.956	0.034	0.743	0.728	5.69	4	6	7	1.977
	200	0.9799	0.0085	0.2886	1.007	3.234	0.936	0.045	0.691	0.677	5.59	4	6	8	1.961
	300	0.9755	0.0055	0.2815	1.009	3.650	0.918	0.053	0.638	0.621	5.53	4	6	8	1.947
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9929	0.0210	0.3323	1.007	2.717	0.972	0.005	0.882	0.790	5.99	5	7	8	1.971
	200	0.9884	0.0102	0.3307	1.009	3.116	0.956	0.005	0.848	0.746	5.95	5	7	8	1.955
	300	0.9825	0.0067	0.3285	1.011	3.676	0.931	0.010	0.797	0.683	5.91	5	7	9	1.938
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9909	0.0200	0.3214	1.007	2.772	0.964	0.009	0.838	0.791	5.88	5	6	8	1.968
	200	0.9840	0.0096	0.3169	1.009	3.348	0.940	0.014	0.790	0.738	5.81	5	7	8	1.946
	300	0.9774	0.0063	0.3161	1.011	3.935	0.916	0.018	0.750	0.679	5.78	5	7	8	1.928
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9788	0.0180	0.2990	1.009	3.514	0.923	0.032	0.719	0.707	5.65	4	6	7	1.939
	200	0.9686	0.0085	0.2912	1.010	4.095	0.895	0.042	0.663	0.652	5.55	4	6	8	1.916
	300	0.9625	0.0055	0.2842	1.013	4.654	0.870	0.050	0.608	0.595	5.47	4	6	8	1.893

Notes: See notes to Table 46.

Table 180: MC findings for DGPIV(a)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0220	0.3439	1.003	2.039	1.000	0.000	0.996	0.889	6.12	6	7	8	1.998
	200	1.0000	0.0108	0.3439	1.003	2.090	1.000	0.000	0.996	0.889	6.12	6	7	9	2.000
	300	0.9999	0.0072	0.3441	1.003	2.125	1.000	0.001	0.990	0.872	6.12	6	7	9	2.000
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0214	0.3382	1.003	1.982	1.000	0.000	0.994	0.938	6.06	6	7	8	1.998
	200	1.0000	0.0105	0.3386	1.003	2.010	1.000	0.000	0.994	0.934	6.06	6	7	9	1.999
	300	0.9999	0.0070	0.3383	1.003	2.042	1.000	0.001	0.985	0.915	6.06	6	7	9	2.000
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0208	0.3326	1.002	1.916	1.000	0.001	0.986	0.973	6.00	6	6	8	1.999
	200	1.0000	0.0102	0.3323	1.002	1.929	1.000	0.001	0.981	0.965	6.00	6	6	8	1.999
	300	0.9999	0.0067	0.3311	1.002	1.961	1.000	0.004	0.969	0.946	5.99	6	6	8	1.999
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0220	0.3433	1.003	2.025	1.000	0.000	0.996	0.895	6.11	6	7	8	1.994
	200	1.0000	0.0108	0.3434	1.003	2.074	1.000	0.000	0.996	0.894	6.11	6	7	9	1.996
	300	0.9999	0.0071	0.3435	1.003	2.107	1.000	0.001	0.990	0.877	6.11	6	7	9	1.997
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0213	0.3377	1.003	1.971	1.000	0.000	0.994	0.942	6.05	6	7	8	1.997
	200	1.0000	0.0105	0.3382	1.003	2.001	1.000	0.000	0.994	0.938	6.06	6	7	9	1.997
	300	0.9999	0.0069	0.3381	1.003	2.032	1.000	0.001	0.985	0.918	6.06	6	7	9	1.998
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0208	0.3326	1.002	1.916	1.000	0.001	0.986	0.973	6.00	6	6	8	1.999
	200	0.9999	0.0102	0.3323	1.002	1.967	1.000	0.001	0.981	0.965	6.00	6	6	8	1.998
	300	0.9999	0.0067	0.3310	1.002	1.952	1.000	0.004	0.969	0.947	5.99	6	6	8	1.999

Notes: See notes to Table 46.

Table 181: MC findings for DGPIV(b)

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9556	0.0083	0.1497	1.034	3.011	0.831	0.327	4.62	3	6	8	1.865
	200	0.9404	0.0038	0.1438	1.043	3.361	0.774	0.324	4.51	3	6	8	1.815
	300	0.9305	0.0024	0.1389	1.048	3.527	0.745	0.339	4.44	3	6	8	1.782
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9450	0.0065	0.1219	1.036	3.226	0.792	0.378	4.40	3	6	8	1.820
	200	0.9255	0.0030	0.1163	1.047	3.642	0.728	0.368	4.28	3	6	8	1.762
	300	0.9170	0.0018	0.1084	1.051	3.739	0.703	0.390	4.20	3	6	8	1.737
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9126	0.0038	0.0774	1.046	3.923	0.690	0.457	4.02	3	5	7	1.708
	200	0.8964	0.0017	0.0704	1.055	4.173	0.638	0.439	3.91	3	5	7	1.661
	300	0.8793	0.0010	0.0637	1.063	4.380	0.595	0.429	3.81	2	5	7	1.613
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9251	0.0079	0.1473	1.047	3.720	0.713	0.297	4.45	3	6	8	1.719
	200	0.9076	0.0036	0.1402	1.057	4.003	0.647	0.286	4.33	3	6	8	1.658
	300	0.8914	0.0023	0.1364	1.066	4.215	0.595	0.287	4.24	3	6	8	1.600
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9143	0.0062	0.1213	1.050	3.910	0.673	0.332	4.25	3	6	8	1.680
	200	0.8911	0.0028	0.1143	1.062	4.273	0.595	0.316	4.11	3	5.5	8	1.607
	300	0.8773	0.0017	0.1066	1.070	4.415	0.553	0.318	4.01	3	5	8	1.556
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8820	0.0037	0.0778	1.061	4.473	0.574	0.386	3.89	3	5	7	1.580
	200	0.8586	0.0016	0.0697	1.072	4.738	0.494	0.355	3.75	3	5	7	1.500
	300	0.8428	0.0010	0.0637	1.081	4.880	0.456	0.331	3.65	2	5	7	1.460

Notes: See notes to Table 55.

Table 182: MC findings for DGPIV(b)

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0154	0.2600	1.005	1.475	1.000	0.010	5.48	5	7	8	2.007
	200	0.9998	0.0071	0.2499	1.004	1.568	0.999	0.009	5.40	5	7	9	2.008
	300	0.9999	0.0047	0.2466	1.005	1.612	1.000	0.016	5.38	5	7	9	2.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0139	0.2420	1.004	1.410	1.000	0.015	5.33	5	6	8	2.007
	200	0.9998	0.0064	0.2325	1.003	1.501	0.999	0.018	5.26	5	6	8	2.006
	300	0.9999	0.0042	0.2291	1.003	1.506	1.000	0.026	5.24	5	6	9	2.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0119	0.2156	1.003	1.326	1.000	0.040	5.14	5	6	8	2.004
	200	0.9995	0.0055	0.2072	1.003	1.490	0.998	0.048	5.08	4.5	6	7	2.001
	300	0.9998	0.0036	0.2037	1.002	1.429	0.999	0.057	5.06	4	6	8	2.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0152	0.2579	1.004	1.434	1.000	0.010	5.46	5	7	8	2.000
	200	0.9996	0.0070	0.2471	1.004	1.544	0.999	0.009	5.38	5	7	9	1.999
	300	0.9998	0.0046	0.2436	1.004	1.567	0.999	0.017	5.35	5	6	9	1.997
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0137	0.2404	1.003	1.374	1.000	0.015	5.32	5	6	8	1.999
	200	0.9994	0.0063	0.2305	1.003	1.582	0.998	0.019	5.24	5	6	8	1.997
	300	0.9995	0.0041	0.2271	1.003	1.586	0.998	0.026	5.22	5	6	9	1.996
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0118	0.2149	1.003	1.439	0.999	0.040	5.13	5	6	8	2.000
	200	0.9993	0.0055	0.2066	1.003	1.567	0.997	0.048	5.07	4	6	7	1.997
	300	0.9991	0.0036	0.2033	1.003	1.652	0.997	0.057	5.05	4	6	8	1.996

Notes: See notes to Table 55.

Table 183: MC findings for DGPIV(b)

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0188	0.3008	1.003	1.494	1.000	0.000	5.80	5	7	10	2.009
	200	1.0000	0.0088	0.2908	1.002	1.494	1.000	0.000	5.72	5	7	9	2.010
	300	1.0000	0.0058	0.2888	1.003	1.550	1.000	0.000	5.70	5	7	9	2.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0172	0.2832	1.002	1.427	1.000	0.000	5.65	5	7	8	2.005
	200	1.0000	0.0080	0.2737	1.002	1.415	1.000	0.000	5.57	5	7	8	2.006
	300	1.0000	0.0052	0.2707	1.002	1.475	1.000	0.000	5.55	5	7	8	2.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0147	0.2538	1.002	1.344	1.000	0.001	5.41	5	6	8	2.001
	200	1.0000	0.0069	0.2459	1.001	1.321	1.000	0.001	5.35	5	6	8	2.001
	300	1.0000	0.0045	0.2441	1.002	1.348	1.000	0.002	5.34	5	6	8	2.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0186	0.2989	1.002	1.451	1.000	0.000	5.79	5	7	10	1.998
	200	1.0000	0.0087	0.2885	1.002	1.432	1.000	0.000	5.70	5	7	9	1.998
	300	1.0000	0.0057	0.2868	1.002	1.473	1.000	0.000	5.69	5	7	9	2.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0171	0.2820	1.002	1.396	1.000	0.000	5.64	5	7	8	1.999
	200	1.0000	0.0080	0.2723	1.002	1.378	1.000	0.000	5.56	5	7	8	1.999
	300	1.0000	0.0052	0.2694	1.002	1.420	1.000	0.000	5.54	5	7	8	2.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0147	0.2534	1.002	1.334	1.000	0.001	5.41	5	6	8	2.000
	200	1.0000	0.0069	0.2457	1.001	1.313	1.000	0.001	5.35	5	6	8	2.000
	300	1.0000	0.0045	0.2437	1.002	1.338	1.000	0.002	5.33	5	6	8	2.000

Notes: See notes to Table 55.

Table 184: MC findings for DGPIV(b)

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8003	0.0062	0.1302	1.052	3.131	0.323	0.177	3.80	2	5	9	1.361
	200	0.7750	0.0026	0.1138	1.058	3.317	0.242	0.145	3.60	2	5	8	1.273
	300	0.7629	0.0018	0.1235	1.065	3.357	0.213	0.120	3.60	2	5	9	1.248
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7790	0.0044	0.0978	1.052	3.155	0.274	0.176	3.54	2	5	9	1.307
	200	0.7510	0.0018	0.0853	1.057	3.373	0.198	0.142	3.36	2	5	7	1.224
	300	0.7433	0.0013	0.0922	1.063	3.346	0.175	0.113	3.36	2	5	8	1.199
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7224	0.0022	0.0530	1.056	3.368	0.164	0.130	3.10	2	4	7	1.185
	200	0.6920	0.0009	0.0457	1.060	3.626	0.108	0.088	2.94	2	4	6	1.123
	300	0.6884	0.0006	0.0486	1.064	3.545	0.101	0.082	2.94	2	4	6	1.114
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7634	0.0059	0.1290	1.058	3.268	0.182	0.109	3.62	2	5	9	1.192
	200	0.7440	0.0024	0.1117	1.062	3.432	0.125	0.079	3.46	2	5	8	1.131
	300	0.7335	0.0017	0.1205	1.068	3.414	0.101	0.062	3.45	2	5	8	1.106
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7454	0.0043	0.0973	1.057	3.289	0.148	0.099	3.39	2	5	8	1.160
	200	0.7248	0.0017	0.0831	1.060	3.449	0.100	0.073	3.24	2	5	7	1.104
	300	0.7183	0.0013	0.0904	1.066	3.404	0.083	0.056	3.25	2	5	7	1.085
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7010	0.0021	0.0524	1.060	3.442	0.088	0.066	3.01	2	4	7	1.095
	200	0.6771	0.0009	0.0440	1.062	3.661	0.053	0.045	2.88	2	4	6	1.056
	300	0.6750	0.0006	0.0469	1.066	3.572	0.051	0.042	2.88	2	4	6	1.052

Notes: See notes to Table 55.

Table 185: MC findings for DGPIV(b)

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9909	0.0132	0.2312	1.006	2.206	0.964	0.064	5.23	4	6	9	1.967
	200	0.9849	0.0061	0.2198	1.008	2.515	0.940	0.089	5.13	4	6	10	1.949
	300	0.9806	0.0040	0.2187	1.008	2.843	0.923	0.097	5.10	4	6	8	1.929
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9880	0.0116	0.2099	1.006	2.300	0.952	0.096	5.06	4	6	8	1.954
	200	0.9794	0.0053	0.1995	1.008	2.734	0.918	0.121	4.96	4	6	9	1.922
	300	0.9770	0.0035	0.1974	1.008	2.946	0.908	0.140	4.94	4	6	7	1.912
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9794	0.0092	0.1746	1.007	2.705	0.918	0.178	4.80	4	6	7	1.919
	200	0.9675	0.0043	0.1679	1.010	3.209	0.870	0.200	4.71	4	6	7	1.872
	300	0.9639	0.0027	0.1588	1.010	3.408	0.856	0.236	4.65	4	6	7	1.858
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9796	0.0130	0.2314	1.008	2.834	0.919	0.062	5.17	4	6	9	1.916
	200	0.9650	0.0060	0.2206	1.012	3.445	0.860	0.083	5.03	4	6	10	1.861
	300	0.9576	0.0039	0.2210	1.013	3.831	0.831	0.088	4.99	4	6	8	1.831
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9735	0.0115	0.2110	1.009	3.061	0.894	0.091	4.99	4	6	8	1.892
	200	0.9594	0.0053	0.2016	1.012	3.607	0.838	0.109	4.87	4	6	9	1.838
	300	0.9511	0.0034	0.2002	1.014	3.998	0.805	0.125	4.83	4	6	7	1.804
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9595	0.0092	0.1774	1.011	3.594	0.838	0.161	4.72	4	6	7	1.838
	200	0.9404	0.0043	0.1713	1.016	4.238	0.762	0.171	4.60	3	5	7	1.762
	300	0.9313	0.0027	0.1627	1.017	4.577	0.725	0.200	4.51	3	5	7	1.725

Notes: See notes to Table 55.

Table 186: MC findings for DGPIV(b)

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0162	0.2697	1.003	1.528	1.000	0.003	5.55	5	7	9	2.006
	200	0.9998	0.0076	0.2624	1.003	1.575	0.999	0.002	5.49	5	7	8	2.004
	300	0.9999	0.0048	0.2536	1.003	1.601	1.000	0.007	5.42	5	7	9	2.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0148	0.2540	1.002	1.456	1.000	0.004	5.42	5	6.5	8	2.003
	200	0.9996	0.0069	0.2447	1.002	1.505	0.999	0.004	5.35	5	6	8	1.999
	300	0.9998	0.0044	0.2384	1.002	1.534	0.999	0.010	5.30	5	6	8	2.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0126	0.2263	1.002	1.441	0.998	0.016	5.21	5	6	8	1.999
	200	0.9985	0.0060	0.2228	1.002	1.616	0.994	0.011	5.17	5	6	7	1.994
	300	0.9986	0.0038	0.2159	1.002	1.713	0.995	0.029	5.13	5	6	7	1.999
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0160	0.2680	1.003	1.584	0.998	0.003	5.54	5	7	8	1.997
	200	0.9986	0.0075	0.2609	1.003	1.766	0.995	0.002	5.47	5	7	8	1.993
	300	0.9981	0.0048	0.2525	1.003	1.961	0.993	0.007	5.40	5	6	8	1.994
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0147	0.2531	1.002	1.594	0.997	0.004	5.41	5	6	8	1.997
	200	0.9975	0.0068	0.2443	1.003	1.907	0.990	0.004	5.33	5	6	8	1.989
	300	0.9975	0.0044	0.2379	1.002	2.016	0.990	0.010	5.28	5	6	8	1.993
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9976	0.0126	0.2263	1.002	1.879	0.991	0.016	5.20	5	6	8	1.991
	200	0.9955	0.0060	0.2231	1.003	2.138	0.982	0.010	5.16	5	6	7	1.981
	300	0.9946	0.0038	0.2161	1.003	2.428	0.979	0.028	5.11	5	6	7	1.980

Notes: See notes to Table 55.

Table 187: MC findings for DGPIV(b)

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5998	0.0039	0.1053	1.043	2.382	0.041	0.029	2.78	1	5	7	1.062
	200	0.5721	0.0019	0.1111	1.050	2.489	0.028	0.021	2.67	1	4	6	1.047
	300	0.5420	0.0013	0.1208	1.054	2.742	0.019	0.013	2.56	1	4	7	1.041
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5641	0.0026	0.0742	1.043	2.397	0.029	0.022	2.51	1	4	7	1.045
	200	0.5343	0.0013	0.0817	1.050	2.519	0.023	0.020	2.39	0	4	6	1.036
	300	0.5034	0.0008	0.0822	1.053	2.698	0.009	0.008	2.26	0	4	6	1.024
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4784	0.0010	0.0336	1.050	2.565	0.007	0.006	2.01	0	3	6	1.014
	200	0.4485	0.0005	0.0395	1.057	2.691	0.010	0.009	1.89	0	3	6	1.015
	300	0.4198	0.0003	0.0387	1.061	2.811	0.004	0.004	1.78	0	3	5	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5915	0.0038	0.1027	1.043	2.352	0.013	0.010	2.73	1	4	7	1.016
	200	0.5675	0.0019	0.1084	1.049	2.463	0.014	0.011	2.63	1	4	6	1.015
	300	0.5378	0.0013	0.1161	1.053	2.693	0.006	0.003	2.53	1	4	7	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5566	0.0025	0.0726	1.042	2.382	0.004	0.003	2.47	1	4	7	1.006
	200	0.5303	0.0013	0.0798	1.049	2.498	0.011	0.009	2.37	0	4	6	1.011
	300	0.5009	0.0008	0.0788	1.053	2.676	0.003	0.002	2.24	0	4	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4765	0.0010	0.0323	1.050	2.555	0.001	0.001	2.00	0	3	5	1.002
	200	0.4464	0.0005	0.0389	1.057	2.680	0.003	0.003	1.88	0	3	6	1.005
	300	0.4186	0.0003	0.0380	1.061	2.806	0.000	0.000	1.77	0	3	5	1.002

Notes: See notes to Table 55.

Table 188: MC findings for DGPIV(b)

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8801	0.0092	0.1802	1.015	3.204	0.524	0.152	4.40	3	6	8	1.531
	200	0.8521	0.0041	0.1695	1.018	3.410	0.417	0.151	4.21	3	6	8	1.422
	300	0.8469	0.0025	0.1571	1.019	3.372	0.395	0.144	4.13	3	6	8	1.406
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8640	0.0075	0.1522	1.016	3.242	0.462	0.171	4.17	3	6	7	1.469
	200	0.8371	0.0033	0.1419	1.018	3.422	0.361	0.161	3.99	3	5	7	1.364
	300	0.8321	0.0019	0.1272	1.019	3.382	0.341	0.160	3.90	3	5	7	1.348
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8290	0.0048	0.1042	1.018	3.447	0.337	0.186	3.78	3	5	7	1.340
	200	0.8031	0.0021	0.0971	1.020	3.577	0.246	0.149	3.63	3	5	6	1.251
	300	0.7999	0.0012	0.0828	1.020	3.538	0.232	0.145	3.55	3	5	6	1.234
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8325	0.0091	0.1862	1.020	3.659	0.336	0.093	4.21	3	6	8	1.335
	200	0.8058	0.0040	0.1749	1.022	3.788	0.232	0.082	4.02	3	5	8	1.232
	300	0.8003	0.0025	0.1614	1.023	3.771	0.210	0.078	3.93	3	5	7	1.211
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8209	0.0074	0.1570	1.020	3.643	0.292	0.106	4.00	3	5	7	1.293
	200	0.7960	0.0033	0.1463	1.022	3.764	0.198	0.086	3.82	3	5	7	1.198
	300	0.7888	0.0019	0.1306	1.022	3.743	0.170	0.076	3.72	3	5	7	1.169
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7929	0.0048	0.1067	1.021	3.737	0.193	0.106	3.63	3	5	7	1.193
	200	0.7723	0.0021	0.0988	1.023	3.803	0.124	0.072	3.50	3	5	6	1.126
	300	0.7688	0.0012	0.0848	1.023	3.768	0.109	0.067	3.43	3	5	6	1.108

Notes: See notes to Table 55.

Table 189: MC findings for DGPIV(b)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9666	0.0129	0.2328	1.005	2.760	0.867	0.054	5.11	4	6	8	1.868
	200	0.9508	0.0060	0.2256	1.007	3.275	0.803	0.074	4.98	4	6	8	1.804
	300	0.9496	0.0038	0.2170	1.008	3.299	0.799	0.085	4.92	4	6	9	1.801
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9578	0.0115	0.2140	1.006	2.948	0.831	0.081	4.93	4	6	8	1.833
	200	0.9394	0.0053	0.2062	1.008	3.473	0.758	0.097	4.79	4	6	8	1.759
	300	0.9399	0.0033	0.1977	1.008	3.443	0.760	0.120	4.75	4	6	7	1.762
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9323	0.0092	0.1817	1.008	3.467	0.729	0.148	4.61	3	6	7	1.731
	200	0.9119	0.0042	0.1727	1.010	4.015	0.648	0.152	4.47	3	5	7	1.649
	300	0.9151	0.0026	0.1637	1.009	3.896	0.661	0.182	4.44	3	5	7	1.661
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9321	0.0128	0.2385	1.009	3.627	0.729	0.048	4.96	4	6	8	1.727
	200	0.9061	0.0060	0.2339	1.012	4.320	0.625	0.058	4.80	4	6	8	1.623
	300	0.9043	0.0038	0.2247	1.012	4.313	0.617	0.061	4.73	3	6	9	1.617
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9223	0.0114	0.2201	1.009	3.787	0.689	0.072	4.78	4	6	8	1.688
	200	0.8916	0.0053	0.2146	1.012	4.518	0.567	0.072	4.60	3	6	8	1.568
	300	0.8930	0.0033	0.2053	1.012	4.444	0.572	0.085	4.56	3	6	7	1.572
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8936	0.0092	0.1876	1.012	4.232	0.575	0.114	4.45	3	5	7	1.575
	200	0.8673	0.0042	0.1793	1.014	4.845	0.469	0.112	4.28	3	5	7	1.469
	300	0.8640	0.0026	0.1709	1.015	4.862	0.456	0.121	4.23	3	5	7	1.456

Notes: See notes to Table 55.

4.5 Findings for designs with nonzero slopes (all variables are signals)

Table 190: MC findings for DGPV

$T = 100$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2768	0.0022	0.0464	0.973	0.457	0.000	3.24	2	5	8	1.049
	200	0.2633	0.0014	0.0661	0.978	0.509	0.000	3.16	2	5	7	1.063
	300	0.2571	0.0010	0.0741	0.980	0.527	0.000	3.13	2	5	7	1.057
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2646	0.0013	0.0302	0.972	0.429	0.000	3.03	2	4	6	1.036
	200	0.2532	0.0008	0.0411	0.975	0.453	0.000	2.94	2	4	7	1.044
	300	0.2466	0.0006	0.0492	0.977	0.491	0.000	2.90	2	4	7	1.042
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2391	0.0004	0.0103	0.970	0.388	0.000	2.67	2	4	6	1.019
	200	0.2330	0.0003	0.0182	0.972	0.405	0.000	2.63	2	4	6	1.024
	300	0.2278	0.0003	0.0211	0.973	0.427	0.000	2.58	2	4	5	1.023
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2756	0.0019	0.0407	0.972	0.423	0.000	3.20	2	5	8	1.013
	200	0.2627	0.0012	0.0562	0.974	0.453	0.000	3.12	2	5	7	1.018
	300	0.2566	0.0009	0.0645	0.976	0.470	0.000	3.08	2	5	7	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2638	0.0011	0.0256	0.970	0.401	0.000	3.00	2	4	6	1.010
	200	0.2525	0.0007	0.0344	0.972	0.417	0.000	2.91	2	4	7	1.011
	300	0.2463	0.0005	0.0414	0.974	0.442	0.000	2.87	2	4	7	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2387	0.0003	0.0073	0.969	0.372	0.000	2.65	2	4	6	1.005
	200	0.2324	0.0003	0.0138	0.970	0.378	0.000	2.60	2	4	6	1.002
	300	0.2276	0.0002	0.0173	0.972	0.405	0.000	2.56	2	4	5	1.008

Notes: See notes to Table 91.

Table 191: MC findings for DGPV

$T = 300$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3779	0.0019	0.0310	0.996	0.606	0.000	4.32	3	6	9	1.038
	200	0.3644	0.0008	0.0312	0.996	0.597	0.000	4.16	3	6	8	1.029
	300	0.3574	0.0006	0.0328	0.996	0.597	0.000	4.10	3	6	9	1.024
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3647	0.0011	0.0187	0.995	0.566	0.000	4.11	3	6	8	1.025
	200	0.3535	0.0005	0.0181	0.996	0.565	0.000	3.98	3	5	7	1.022
	300	0.3459	0.0003	0.0178	0.995	0.563	0.000	3.89	3	5	8	1.015
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3392	0.0003	0.0058	0.995	0.531	0.000	3.76	3	5	7	1.013
	200	0.3305	0.0001	0.0051	0.995	0.531	0.000	3.66	3	5	6	1.009
	300	0.3259	0.0001	0.0050	0.995	0.535	0.000	3.61	3	5	6	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3769	0.0016	0.0268	0.995	0.571	0.000	4.29	3	6	9	1.007
	200	0.3639	0.0007	0.0275	0.996	0.563	0.000	4.14	3	6	8	1.006
	300	0.3567	0.0005	0.0303	0.996	0.569	0.000	4.08	3	6	9	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3641	0.0009	0.0158	0.995	0.543	0.000	4.09	3	6	8	1.005
	200	0.3530	0.0004	0.0156	0.995	0.540	0.000	3.96	3	5	7	1.004
	300	0.3451	0.0003	0.0169	0.995	0.548	0.000	3.88	3	5	8	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3388	0.0003	0.0048	0.995	0.520	0.000	3.75	3	5	7	1.003
	200	0.3302	0.0001	0.0046	0.995	0.523	0.000	3.65	3	5	6	1.003
	300	0.3255	0.0001	0.0043	0.995	0.521	0.000	3.60	3	5	6	1.001

Notes: See notes to Table 91.

Table 192: MC findings for DGPV

$T = 500$, $R^2 = 70\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4293	0.0015	0.0232	0.998	0.647	0.000	4.86	4	6	10	1.030
	200	0.4168	0.0007	0.0231	0.998	0.651	0.000	4.72	4	6	9	1.025
	300	0.4088	0.0005	0.0250	0.999	0.668	0.000	4.64	4	6	8	1.022
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4166	0.0008	0.0127	0.997	0.617	0.000	4.65	4	6	8	1.017
	200	0.4049	0.0004	0.0130	0.998	0.620	0.000	4.52	4	6	8	1.015
	300	0.3981	0.0003	0.0138	0.998	0.645	0.000	4.45	3	6	8	1.015
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3923	0.0002	0.0036	0.997	0.587	0.000	4.33	3	5	7	1.007
	200	0.3823	0.0001	0.0037	0.998	0.592	0.000	4.22	3	5	8	1.004
	300	0.3775	0.0001	0.0048	0.998	0.615	0.000	4.18	3	5	7	1.008
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4285	0.0013	0.0201	0.997	0.621	0.000	4.83	4	6	10	1.004
	200	0.4163	0.0006	0.0203	0.998	0.621	0.000	4.69	4	6	9	1.003
	300	0.4082	0.0004	0.0231	0.999	0.645	0.000	4.62	4	6	8	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4160	0.0007	0.0115	0.997	0.604	0.000	4.64	4	6	8	1.004
	200	0.4045	0.0003	0.0115	0.998	0.602	0.000	4.51	4	6	8	1.002
	300	0.3976	0.0002	0.0123	0.998	0.626	0.000	4.44	3	6	8	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3920	0.0002	0.0032	0.997	0.582	0.000	4.33	3	5	7	1.003
	200	0.3822	0.0001	0.0031	0.998	0.584	0.000	4.22	3	5	8	1.001
	300	0.3771	0.0001	0.0042	0.998	0.606	0.000	4.17	3	5	7	1.002

Notes: See notes to Table 91.

Table 193: MC findings for DGPV

$T = 100$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2416	0.0025	0.0593	0.971	0.443	0.000	2.88	2	4	6	1.037
	200	0.2299	0.0013	0.0687	0.972	0.463	0.000	2.78	2	4	7	1.044
	300	0.2228	0.0010	0.0795	0.978	0.498	0.000	2.74	2	4	8	1.039
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2296	0.0015	0.0389	0.968	0.404	0.000	2.66	2	4	6	1.024
	200	0.2201	0.0008	0.0451	0.968	0.418	0.000	2.58	2	4	6	1.029
	300	0.2140	0.0006	0.0521	0.974	0.453	0.000	2.53	2	4	6	1.024
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2062	0.0006	0.0156	0.965	0.359	0.000	2.32	1	4	5	1.016
	200	0.2010	0.0003	0.0167	0.965	0.368	0.000	2.26	1	3	5	1.011
	300	0.1950	0.0002	0.0223	0.970	0.394	0.000	2.21	1	3	6	1.012
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2414	0.0022	0.0525	0.969	0.416	0.000	2.85	2	4	6	1.009
	200	0.2294	0.0011	0.0599	0.970	0.432	0.000	2.74	2	4	7	1.008
	300	0.2227	0.0009	0.0708	0.976	0.464	0.000	2.70	2	4	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2294	0.0014	0.0348	0.967	0.389	0.000	2.64	2	4	6	1.008
	200	0.2198	0.0007	0.0393	0.967	0.397	0.000	2.55	2	4	6	1.006
	300	0.2139	0.0005	0.0463	0.972	0.424	0.000	2.51	2	4	6	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2057	0.0005	0.0138	0.964	0.345	0.000	2.31	1	3	5	1.006
	200	0.2008	0.0002	0.0142	0.964	0.350	0.000	2.25	1	3	5	1.002
	300	0.1950	0.0002	0.0189	0.969	0.376	0.000	2.20	1	3	6	1.002

Notes: See notes to Table 91.

Table 194: MC findings for DGPV

$T = 300$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3412	0.0018	0.0328	0.993	0.539	0.000	3.91	3	5	8	1.024
	200	0.3285	0.0008	0.0343	0.994	0.533	0.000	3.77	3	5	7	1.026
	300	0.3237	0.0006	0.0341	0.993	0.540	0.000	3.72	3	5	9	1.020
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3278	0.0010	0.0199	0.992	0.503	0.000	3.70	3	5	7	1.019
	200	0.3170	0.0005	0.0203	0.993	0.491	0.000	3.57	3	5	7	1.015
	300	0.3143	0.0003	0.0217	0.992	0.501	0.000	3.56	3	5	7	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3044	0.0003	0.0064	0.992	0.444	0.000	3.38	3	4	7	1.007
	200	0.2960	0.0001	0.0064	0.992	0.440	0.000	3.28	2	4	6	1.004
	300	0.2923	0.0001	0.0062	0.991	0.443	0.000	3.24	2	4	6	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3408	0.0016	0.0296	0.993	0.516	0.000	3.89	3	5	8	1.003
	200	0.3283	0.0007	0.0292	0.993	0.500	0.000	3.75	3	5	7	1.001
	300	0.3236	0.0005	0.0304	0.993	0.514	0.000	3.70	3	5	9	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3274	0.0009	0.0172	0.992	0.483	0.000	3.68	3	5	7	1.003
	200	0.3168	0.0004	0.0174	0.992	0.472	0.000	3.56	3	5	7	1.001
	300	0.3141	0.0003	0.0193	0.992	0.485	0.000	3.54	3	5	7	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3043	0.0003	0.0054	0.991	0.436	0.000	3.37	3	4	7	1.002
	200	0.2959	0.0001	0.0062	0.992	0.439	0.000	3.28	2	4	6	1.002
	300	0.2923	0.0001	0.0051	0.991	0.435	0.000	3.24	2	4	6	1.001

Notes: See notes to Table 91.

Table 195: MC findings for DGPV

$T = 500$, $R^2 = 50\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3915	0.0015	0.0242	0.997	0.578	0.000	4.44	3	6	9	1.019
	200	0.3764	0.0007	0.0270	0.996	0.576	0.000	4.28	3	6	7	1.014
	300	0.3768	0.0004	0.0247	0.997	0.576	0.000	4.27	3	6	9	1.016
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3783	0.0008	0.0141	0.996	0.544	0.000	4.23	3	6	8	1.013
	200	0.3660	0.0004	0.0150	0.995	0.542	0.000	4.10	3	5	7	1.011
	300	0.3656	0.0002	0.0140	0.996	0.543	0.000	4.09	3	5	8	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3533	0.0002	0.0034	0.996	0.505	0.000	3.90	3	5	7	1.006
	200	0.3451	0.0001	0.0034	0.995	0.490	0.000	3.81	3	5	6	1.002
	300	0.3441	0.0001	0.0040	0.996	0.501	0.000	3.80	3	5	6	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3912	0.0013	0.0217	0.996	0.559	0.000	4.42	3	6	9	1.003
	200	0.3763	0.0007	0.0246	0.996	0.557	0.000	4.27	3	6	7	1.001
	300	0.3766	0.0004	0.0228	0.997	0.561	0.000	4.26	3	6	8	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3781	0.0007	0.0119	0.996	0.527	0.000	4.22	3	6	8	1.001
	200	0.3659	0.0004	0.0132	0.995	0.528	0.000	4.09	3	5	7	1.001
	300	0.3655	0.0002	0.0130	0.996	0.533	0.000	4.09	3	5	8	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3531	0.0001	0.0025	0.996	0.496	0.000	3.90	3	5	7	1.000
	200	0.3451	0.0001	0.0030	0.995	0.487	0.000	3.81	3	5	6	1.000
	300	0.3440	0.0000	0.0028	0.995	0.488	0.000	3.80	3	5	6	1.000

Notes: See notes to Table 91.

Table 196: MC findings for DGPV

$T = 100$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.1881	0.0021	0.0599	0.968	0.406	0.000	2.26	1	4	8	1.018
	200	0.1759	0.0015	0.0965	0.975	0.490	0.000	2.22	1	4	9	1.027
	300	0.1699	0.0009	0.0946	0.976	0.521	0.000	2.14	1	4	6	1.021
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.1751	0.0013	0.0390	0.967	0.400	0.000	2.04	1	4	6	1.012
	200	0.1642	0.0009	0.0647	0.972	0.473	0.000	1.98	1	3	9	1.019
	300	0.1581	0.0006	0.0664	0.974	0.496	0.000	1.91	1	3	6	1.018
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.1487	0.0003	0.0111	0.966	0.395	0.000	1.66	1	3	4	1.006
	200	0.1399	0.0004	0.0324	0.973	0.468	0.000	1.61	1	3	7	1.006
	300	0.1367	0.0002	0.0269	0.973	0.486	0.000	1.57	0	3	5	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.1880	0.0020	0.0558	0.967	0.389	0.000	2.24	1	4	8	1.002
	200	0.1758	0.0014	0.0890	0.974	0.469	0.000	2.19	1	4	9	1.003
	300	0.1697	0.0009	0.0887	0.974	0.492	0.000	2.12	1	4	6	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.1750	0.0012	0.0362	0.966	0.392	0.000	2.03	1	4	6	1.002
	200	0.1641	0.0008	0.0592	0.971	0.457	0.000	1.96	1	3	9	1.002
	300	0.1580	0.0006	0.0612	0.972	0.479	0.000	1.90	1	3	6	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.1486	0.0003	0.0097	0.966	0.388	0.000	1.66	1	3	4	1.001
	200	0.1398	0.0004	0.0304	0.972	0.465	0.000	1.61	1	3	7	1.001
	300	0.1367	0.0002	0.0248	0.973	0.479	0.000	1.56	0	3	5	1.002

Notes: See notes to Table 91.

Table 197: MC findings for DGPV

$T = 300$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2927	0.0016	0.0324	0.991	0.473	0.000	3.36	2	5	7	1.008
	200	0.2753	0.0008	0.0374	0.991	0.476	0.000	3.18	2	5	7	1.010
	300	0.2734	0.0006	0.0413	0.991	0.494	0.000	3.17	2	5	7	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2794	0.0009	0.0196	0.990	0.430	0.000	3.16	2	4	7	1.005
	200	0.2631	0.0005	0.0230	0.990	0.434	0.000	2.98	2	4	6	1.009
	300	0.2626	0.0003	0.0235	0.990	0.443	0.000	2.98	2	4	7	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2557	0.0003	0.0061	0.989	0.375	0.000	2.84	2	4	6	1.005
	200	0.2435	0.0001	0.0066	0.989	0.363	0.000	2.70	2	4	5	1.003
	300	0.2410	0.0001	0.0075	0.989	0.377	0.000	2.68	2	4	6	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2927	0.0015	0.0305	0.991	0.466	0.000	3.35	2	5	7	1.001
	200	0.2752	0.0008	0.0358	0.991	0.466	0.000	3.17	2	5	7	1.002
	300	0.2734	0.0005	0.0387	0.991	0.479	0.000	3.16	2	5	7	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2794	0.0009	0.0185	0.990	0.425	0.000	3.15	2	4	7	1.001
	200	0.2630	0.0004	0.0213	0.990	0.421	0.000	2.97	2	4	6	1.001
	300	0.2626	0.0003	0.0220	0.990	0.434	0.000	2.97	2	4	7	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2557	0.0002	0.0055	0.989	0.372	0.000	2.83	2	4	6	1.002
	200	0.2435	0.0001	0.0060	0.989	0.360	0.000	2.70	2	4	5	1.001
	300	0.2409	0.0001	0.0068	0.989	0.370	0.000	2.68	2	4	6	1.000

Notes: See notes to Table 91.

Table 198: MC findings for DGPV

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3423	0.0013	0.0244	0.995	0.512	0.000	3.88	3	5	8	1.005
	200	0.3285	0.0007	0.0284	0.996	0.532	0.000	3.75	3	5	9	1.008
	300	0.3206	0.0004	0.0275	0.996	0.509	0.000	3.65	3	5	7	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3292	0.0008	0.0149	0.995	0.480	0.000	3.69	3	5	8	1.003
	200	0.3166	0.0004	0.0172	0.995	0.489	0.000	3.56	3	5	9	1.006
	300	0.3098	0.0002	0.0158	0.995	0.467	0.000	3.48	3	5	6	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3055	0.0002	0.0034	0.994	0.428	0.000	3.38	3	4	8	1.001
	200	0.2956	0.0001	0.0054	0.994	0.423	0.000	3.27	2	4	6	1.003
	300	0.2906	0.0001	0.0045	0.995	0.408	0.000	3.22	2	4	6	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3423	0.0013	0.0235	0.995	0.508	0.000	3.88	3	5	8	1.001
	200	0.3285	0.0007	0.0272	0.995	0.519	0.000	3.74	3	5	9	1.001
	300	0.3205	0.0004	0.0261	0.996	0.495	0.000	3.64	3	5	7	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3292	0.0007	0.0144	0.995	0.475	0.000	3.69	3	5	8	1.000
	200	0.3166	0.0004	0.0162	0.995	0.477	0.000	3.56	3	5	9	1.001
	300	0.3096	0.0002	0.0148	0.995	0.455	0.000	3.47	3	5	6	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3055	0.0002	0.0032	0.994	0.426	0.000	3.37	3	4	8	1.000
	200	0.2956	0.0001	0.0049	0.994	0.418	0.000	3.27	2	4	6	1.001
	300	0.2906	0.0001	0.0042	0.995	0.404	0.000	3.21	2	4	6	1.000

Notes: See notes to Table 91.

5 Findings for Experiments with Gaussian Innovations and Serially Correlated Covariates (G-SC)

We ordered and numbered individual tables as follows:

Summary table for experiments with Gaussian innovations and serially correlated covariates (G-SC): List of experiments

Table No.	DGP	ω	R^2	T	Table No.	DGP	R^2	T	Table No.	DGP	R^2	T
199	I(a)	-	70%	100	244	II(a)	70%	100	289	V	70%	100
200	I(a)	-	70%	300	245	II(a)	70%	300	290	V	70%	300
201	I(a)	-	70%	500	246	II(a)	70%	500	291	V	70%	500
202	I(a)	-	50%	100	247	II(a)	50%	100	292	V	50%	100
203	I(a)	-	50%	300	248	II(a)	50%	300	293	V	50%	300
204	I(a)	-	50%	500	249	II(a)	50%	500	294	V	50%	500
205	I(a)	-	30%	100	250	II(a)	30%	100	295	V	30%	100
206	I(a)	-	30%	300	251	II(a)	30%	300	296	V	30%	300
207	I(a)	-	30%	500	252	II(a)	30%	500	297	V	30%	500
208	I(b)	-	70%	100	253	II(b)	70%	100				
209	I(b)	-	70%	300	254	II(b)	70%	300				
210	I(b)	-	70%	500	255	II(b)	70%	500				
211	I(b)	-	50%	100	256	II(b)	50%	100				
212	I(b)	-	50%	300	257	II(b)	50%	300				
213	I(b)	-	50%	500	258	II(b)	50%	500				
214	I(b)	-	30%	100	259	II(b)	30%	100				
215	I(b)	-	30%	300	260	II(b)	30%	300				
216	I(b)	-	30%	500	261	II(b)	30%	500				
217	I(c)	-	70%	100	262	III	70%	100				
218	I(c)	-	70%	300	263	III	70%	300				
219	I(c)	-	70%	500	264	III	70%	500				
220	I(c)	-	50%	100	265	III	50%	100				
221	I(c)	-	50%	300	266	III	50%	300				
222	I(c)	-	50%	500	267	III	50%	500				
223	I(c)	-	30%	100	268	III	30%	100				
224	I(c)	-	30%	300	269	III	30%	300				
225	I(c)	-	30%	500	270	III	30%	500				
226	I(d)	low	70%	100	271	IV(a)	70%	100				
227	I(d)	low	70%	300	272	IV(a)	70%	300				
228	I(d)	low	70%	500	273	IV(a)	70%	500				
229	I(d)	low	50%	100	274	IV(a)	50%	100				
230	I(d)	low	50%	300	275	IV(a)	50%	300				
231	I(d)	low	50%	500	276	IV(a)	50%	500				
232	I(d)	low	30%	100	277	IV(a)	30%	100				
233	I(d)	low	30%	300	278	IV(a)	30%	300				
234	I(d)	low	30%	500	279	IV(a)	30%	500				
235	I(d)	high	70%	100	280	IV(b)	70%	100				
236	I(d)	high	70%	300	281	IV(b)	70%	300				
237	I(d)	high	70%	500	282	IV(b)	70%	500				
238	I(d)	high	50%	100	283	IV(b)	50%	100				
239	I(d)	high	50%	300	284	IV(b)	50%	300				
240	I(d)	high	50%	500	285	IV(b)	50%	500				
241	I(d)	high	30%	100	286	IV(b)	30%	100				
242	I(d)	high	30%	300	287	IV(b)	30%	300				
243	I(d)	high	30%	500	288	IV(b)	30%	500				

Notes: ω is the average pair-wise correlation of the signal variables. The low value is $\omega = 0.2$ and the high value is $\omega = 0.8$. See section 5 of CKP for a full description of MC design.

5.1 Findings for designs with zero correlation between signal and noise variables

Table 199: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0180	0.1961	1.035	2.298	1.000	0.499	5.73	4	12	26	1.013
	200	0.9999	0.0131	0.2264	1.065	3.485	1.000	0.488	6.56	4	17	45	1.015
	300	0.9999	0.0101	0.2390	1.087	14.301	1.000	0.470	6.99	4	19	79	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0126	0.1474	1.022	1.692	1.000	0.603	5.21	4	10	23	1.006
	200	0.9999	0.0093	0.1759	1.042	2.500	1.000	0.576	5.83	4	14	41	1.010
	300	0.9993	0.0071	0.1842	1.058	7.039	0.997	0.562	6.09	4	15	72	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0058	0.0786	1.012	1.295	0.998	0.745	4.55	4	7	16	1.004
	200	0.9989	0.0043	0.0953	1.018	1.570	0.996	0.742	4.84	4	9	33	1.003
	300	0.9990	0.0032	0.0991	1.023	2.077	0.996	0.737	4.94	4	10	53	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0179	0.1947	1.032	1.990	1.000	0.503	5.72	4	12	25	1.002
	200	0.9999	0.0130	0.2248	1.061	3.379	1.000	0.492	6.55	4	17	45	1.003
	300	0.9999	0.0101	0.2380	1.085	14.270	1.000	0.474	6.98	4	19	79	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0126	0.1468	1.022	1.638	1.000	0.605	5.21	4	10	23	1.002
	200	0.9999	0.0093	0.1742	1.040	2.443	1.000	0.581	5.82	4	14	41	1.001
	300	0.9993	0.0070	0.1837	1.056	7.004	0.997	0.564	6.08	4	15	72	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0058	0.0778	1.011	1.274	0.998	0.748	4.55	4	7	16	1.001
	200	0.9988	0.0043	0.0949	1.017	1.543	0.995	0.743	4.83	4	9	33	1.000
	300	0.9990	0.0032	0.0987	1.022	2.030	0.996	0.739	4.94	4	10	53	1.000

Notes: See notes to Table 1.

Table 200: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0234	0.2795	1.008	1.670	1.000	0.279	6.25	4	11	20	1.010
	200	1.0000	0.0165	0.3356	1.012	2.011	1.000	0.238	7.23	4	15	27	1.008
	300	1.0000	0.0137	0.3733	1.015	2.257	1.000	0.215	8.05	4	18	38	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0166	0.2147	1.007	1.498	1.000	0.390	5.59	4	10	17	1.005
	200	1.0000	0.0116	0.2630	1.009	1.737	1.000	0.346	6.28	4	12	25	1.008
	300	1.0000	0.0097	0.2971	1.011	1.862	1.000	0.300	6.87	4	15	32	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0078	0.1160	1.003	1.227	1.000	0.608	4.75	4	7	13	1.001
	200	1.0000	0.0054	0.1469	1.004	1.336	1.000	0.561	5.06	4	9	19	1.002
	300	1.0000	0.0044	0.1683	1.005	1.368	1.000	0.523	5.31	4	10	23	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0233	0.2782	1.008	1.639	1.000	0.283	6.24	4	11	20	1.001
	200	1.0000	0.0164	0.3347	1.012	1.977	1.000	0.239	7.22	4	15	27	1.001
	300	1.0000	0.0137	0.3730	1.015	2.229	1.000	0.215	8.05	4	18	38	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0165	0.2141	1.006	1.472	1.000	0.392	5.59	4	10	17	1.001
	200	1.0000	0.0116	0.2621	1.009	1.700	1.000	0.347	6.28	4	12	25	1.001
	300	1.0000	0.0097	0.2969	1.011	1.839	1.000	0.301	6.87	4	15	32	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0078	0.1158	1.003	1.223	1.000	0.609	4.75	4	7	13	1.000
	200	1.0000	0.0054	0.1468	1.004	1.328	1.000	0.562	5.05	4	9	19	1.001
	300	1.0000	0.0044	0.1683	1.005	1.368	1.000	0.523	5.31	4	10	23	1.000

Notes: See notes to Table 1.

Table 201: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0254	0.3081	1.005	1.633	1.000	0.216	6.44	4	11	21	1.011
	200	1.0000	0.0172	0.3669	1.007	1.827	1.000	0.174	7.36	4	13	38	1.004
	300	1.0000	0.0144	0.4119	1.008	2.086	1.000	0.138	8.26	4	17	35	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0183	0.2422	1.003	1.429	1.000	0.310	5.75	4	10	18	1.005
	200	1.0000	0.0122	0.2913	1.005	1.641	1.000	0.258	6.39	4	12	37	1.003
	300	1.0000	0.0104	0.3360	1.006	1.798	1.000	0.220	7.08	4	14	31	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0083	0.1268	1.002	1.196	1.000	0.562	4.80	4	7	13	1.001
	200	1.0000	0.0057	0.1614	1.002	1.318	1.000	0.493	5.11	4	8	24	1.001
	300	1.0000	0.0048	0.1932	1.003	1.395	1.000	0.443	5.43	4	9	25	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0253	0.3071	1.005	1.577	1.000	0.218	6.43	4	11	21	1.001
	200	1.0000	0.0171	0.3664	1.006	1.814	1.000	0.175	7.36	4	13	38	1.001
	300	1.0000	0.0144	0.4116	1.008	2.076	1.000	0.139	8.25	4	17	35	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0182	0.2417	1.003	1.410	1.000	0.311	5.75	4	10	18	1.000
	200	1.0000	0.0122	0.2909	1.005	1.629	1.000	0.260	6.39	4	12	37	1.000
	300	1.0000	0.0104	0.3358	1.006	1.793	1.000	0.221	7.08	4	14	31	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0083	0.1267	1.002	1.194	1.000	0.563	4.80	4	7	13	1.000
	200	1.0000	0.0057	0.1613	1.002	1.316	1.000	0.494	5.11	4	8	24	1.000
	300	1.0000	0.0048	0.1932	1.003	1.395	1.000	0.443	5.43	4	9	25	1.000

Notes: See notes to Table 1.

Table 202: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9966	0.0110	0.1271	1.025	1.629	0.987	0.631	5.04	4	10	27	1.011
	200	0.9956	0.0074	0.1528	1.039	2.294	0.983	0.596	5.44	4	11	40	1.008
	300	0.9935	0.0061	0.1657	1.053	3.634	0.976	0.583	5.79	4	14	62	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9949	0.0072	0.0881	1.017	1.384	0.980	0.726	4.67	4	8	22	1.006
	200	0.9934	0.0050	0.1119	1.028	1.707	0.974	0.674	4.95	4	9	33	1.004
	300	0.9903	0.0041	0.1208	1.035	2.481	0.964	0.659	5.17	4	11	52	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9893	0.0029	0.0404	1.007	1.143	0.959	0.833	4.24	4	6	18	1.002
	200	0.9836	0.0019	0.0497	1.011	1.252	0.939	0.791	4.31	3	6	27	1.002
	300	0.9803	0.0016	0.0578	1.016	1.419	0.929	0.769	4.41	3	7	35	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9966	0.0108	0.1253	1.023	1.588	0.987	0.637	5.03	4	9.5	27	1.002
	200	0.9956	0.0074	0.1515	1.037	2.264	0.983	0.600	5.43	4	11	40	1.000
	300	0.9935	0.0061	0.1647	1.051	3.569	0.976	0.586	5.78	4	13.5	62	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9949	0.0071	0.0872	1.016	1.346	0.980	0.729	4.66	4	8	22	1.001
	200	0.9934	0.0050	0.1112	1.027	1.679	0.974	0.676	4.95	4	9	33	1.001
	300	0.9903	0.0041	0.1199	1.034	2.450	0.964	0.662	5.16	4	11	52	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9893	0.0029	0.0401	1.007	1.133	0.959	0.834	4.24	4	6	18	1.001
	200	0.9836	0.0019	0.0494	1.011	1.241	0.939	0.792	4.31	3	6	27	1.000
	300	0.9803	0.0016	0.0574	1.015	1.397	0.929	0.771	4.40	3	7	35	1.000

Notes: See notes to Table 1.

Table 203: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0142	0.1899	1.006	1.423	1.000	0.435	5.36	4	9	19	1.007
	200	1.0000	0.0095	0.2347	1.009	1.691	1.000	0.360	5.87	4	11	23	1.006
	300	1.0000	0.0074	0.2513	1.009	1.801	1.000	0.359	6.19	4	12	34	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0096	0.1368	1.005	1.289	1.000	0.555	4.92	4	8	16	1.002
	200	1.0000	0.0064	0.1720	1.007	1.483	1.000	0.485	5.26	4	9	20	1.003
	300	1.0000	0.0050	0.1906	1.007	1.579	1.000	0.461	5.49	4	10	27	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0038	0.0615	1.002	1.129	1.000	0.767	4.37	4	6	12	1.000
	200	1.0000	0.0026	0.0811	1.004	1.228	1.000	0.711	4.51	4	7	16	1.002
	300	1.0000	0.0020	0.0877	1.004	1.313	1.000	0.706	4.58	4	7	16	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0141	0.1888	1.006	1.399	1.000	0.438	5.36	4	9	19	1.000
	200	1.0000	0.0095	0.2339	1.009	1.657	1.000	0.363	5.87	4	11	23	1.001
	300	1.0000	0.0074	0.2511	1.009	1.794	1.000	0.359	6.19	4	12	34	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0096	0.1364	1.004	1.286	1.000	0.557	4.92	4	8	16	1.000
	200	1.0000	0.0064	0.1716	1.007	1.475	1.000	0.487	5.26	4	9	20	1.001
	300	1.0000	0.0050	0.1904	1.007	1.575	1.000	0.462	5.49	4	10	27	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0038	0.0615	1.002	1.129	1.000	0.767	4.37	4	6	12	1.000
	200	1.0000	0.0026	0.0807	1.004	1.212	1.000	0.712	4.51	4	7	16	1.000
	300	1.0000	0.0020	0.0877	1.004	1.299	1.000	0.706	4.58	4	7	16	1.000

Notes: See notes to Table 1.

Table 204: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0144	0.2006	1.004	1.484	1.000	0.385	5.38	4	9	17	1.001
	200	1.0000	0.0098	0.2515	1.006	1.643	1.000	0.310	5.93	4	10	25	1.002
	300	1.0000	0.0077	0.2755	1.006	1.767	1.000	0.290	6.27	4	11	22	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0097	0.1433	1.003	1.349	1.000	0.524	4.93	4	8	13	1.001
	200	1.0000	0.0067	0.1850	1.004	1.472	1.000	0.437	5.31	4	9	22	1.001
	300	1.0000	0.0051	0.2041	1.004	1.542	1.000	0.418	5.52	4	10	20	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0038	0.0634	1.001	1.169	1.000	0.754	4.36	4	6	9	1.000
	200	1.0000	0.0028	0.0877	1.002	1.229	1.000	0.685	4.54	4	7	14	1.001
	300	1.0000	0.0021	0.0981	1.002	1.272	1.000	0.657	4.62	4	7	12	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0144	0.2005	1.004	1.478	1.000	0.385	5.38	4	9	17	1.000
	200	1.0000	0.0098	0.2512	1.006	1.639	1.000	0.311	5.93	4	10	25	1.001
	300	1.0000	0.0077	0.2754	1.006	1.760	1.000	0.291	6.27	4	11	22	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0097	0.1433	1.003	1.343	1.000	0.524	4.93	4	8	13	1.000
	200	1.0000	0.0067	0.1848	1.004	1.469	1.000	0.438	5.31	4	9	22	1.000
	300	1.0000	0.0051	0.2040	1.004	1.537	1.000	0.418	5.52	4	10	20	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0038	0.0634	1.001	1.169	1.000	0.754	4.36	4	6	9	1.000
	200	1.0000	0.0028	0.0876	1.002	1.227	1.000	0.686	4.54	4	7	14	1.000
	300	1.0000	0.0021	0.0980	1.002	1.267	1.000	0.657	4.62	4	7	12	1.000

Notes: See notes to Table 1.

Table 205: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9200	0.0058	0.0827	1.021	1.410	0.767	0.561	4.24	2.5	7	27	1.010
	200	0.8914	0.0041	0.1014	1.024	1.702	0.700	0.506	4.37	2	8	39	1.007
	300	0.8659	0.0029	0.1130	1.029	1.613	0.653	0.452	4.33	2	8	30	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8915	0.0035	0.0537	1.015	1.254	0.698	0.568	3.90	2	6	21	1.007
	200	0.8596	0.0027	0.0711	1.021	1.500	0.634	0.505	3.96	2	7	38	1.006
	300	0.8290	0.0018	0.0733	1.022	1.388	0.584	0.464	3.84	1	7	27	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8131	0.0012	0.0211	1.013	1.132	0.543	0.494	3.37	1	5	17	1.003
	200	0.7656	0.0010	0.0331	1.017	1.153	0.464	0.413	3.26	1	5	21	1.002
	300	0.7340	0.0006	0.0318	1.023	1.240	0.436	0.392	3.12	0	5	20	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9199	0.0057	0.0812	1.018	1.345	0.767	0.566	4.23	2	7	27	1.001
	200	0.8914	0.0041	0.1002	1.022	1.639	0.700	0.510	4.37	2	8	39	1.000
	300	0.8659	0.0029	0.1121	1.028	1.570	0.653	0.455	4.33	2	8	30	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8913	0.0034	0.0530	1.014	1.221	0.697	0.571	3.90	2	6	21	1.001
	200	0.8596	0.0026	0.0700	1.019	1.464	0.634	0.507	3.95	2	7	38	1.001
	300	0.8290	0.0018	0.0727	1.022	1.373	0.584	0.466	3.84	1	7	27	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8131	0.0012	0.0208	1.013	1.123	0.543	0.494	3.37	1	5	17	1.002
	200	0.7656	0.0010	0.0325	1.017	1.140	0.464	0.414	3.25	1	5	21	1.000
	300	0.7340	0.0006	0.0316	1.023	1.239	0.436	0.392	3.12	0	5	20	1.000

Notes: See notes to Table 1.

Table 206: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0074	0.1112	1.006	1.352	1.000	0.614	4.71	4	7	14	1.006
	200	0.9999	0.0045	0.1295	1.007	1.424	1.000	0.583	4.89	4	8	20	1.002
	300	0.9999	0.0034	0.1378	1.007	1.463	1.000	0.587	5.00	4	9	21	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0046	0.0726	1.004	1.249	1.000	0.735	4.44	4	6	14	1.004
	200	0.9998	0.0029	0.0877	1.005	1.306	0.999	0.692	4.56	4	7	18	1.002
	300	0.9999	0.0022	0.0964	1.005	1.320	1.000	0.682	4.64	4	7	19	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0270	1.002	1.115	1.000	0.890	4.15	4	5	9	1.001
	200	0.9996	0.0010	0.0331	1.003	1.151	0.999	0.865	4.19	4	5	12	1.001
	300	0.9996	0.0007	0.0377	1.002	1.140	0.999	0.850	4.22	4	5	15	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0073	0.1103	1.005	1.338	1.000	0.619	4.70	4	7	14	1.001
	200	0.9999	0.0045	0.1292	1.007	1.417	1.000	0.584	4.89	4	8	20	1.000
	300	0.9999	0.0034	0.1373	1.007	1.432	1.000	0.589	5.00	4	9	21	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0046	0.0721	1.004	1.242	1.000	0.738	4.44	4	6	14	1.001
	200	0.9998	0.0029	0.0874	1.005	1.303	0.999	0.694	4.56	4	7	18	1.000
	300	0.9999	0.0022	0.0961	1.005	1.313	1.000	0.684	4.64	4	7	19	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0268	1.002	1.110	1.000	0.891	4.15	4	5	9	1.000
	200	0.9996	0.0010	0.0330	1.003	1.150	0.999	0.866	4.19	4	5	12	1.000
	300	0.9996	0.0007	0.0377	1.002	1.140	0.999	0.850	4.22	4	5	15	1.000

Notes: See notes to Table 1.

Table 207: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0075	0.1155	1.003	1.373	1.000	0.590	4.72	4	7	12	1.009
	200	1.0000	0.0044	0.1354	1.004	1.440	1.000	0.540	4.86	4	7	14	1.004
	300	1.0000	0.0031	0.1426	1.005	1.508	1.000	0.523	4.93	4	8	18	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0048	0.0778	1.002	1.260	1.000	0.707	4.46	4	6	10	1.005
	200	1.0000	0.0028	0.0907	1.003	1.328	1.000	0.661	4.54	4	6	11	1.002
	300	1.0000	0.0020	0.0965	1.003	1.375	1.000	0.647	4.59	4	7	16	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0283	1.001	1.105	1.000	0.879	4.15	4	5	8	1.001
	200	1.0000	0.0010	0.0343	1.001	1.140	1.000	0.855	4.19	4	5	11	1.001
	300	1.0000	0.0007	0.0363	1.001	1.187	1.000	0.846	4.20	4	5	9	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0074	0.1143	1.003	1.340	1.000	0.594	4.71	4	7	12	1.001
	200	1.0000	0.0044	0.1349	1.004	1.426	1.000	0.542	4.86	4	7	14	1.001
	300	1.0000	0.0031	0.1421	1.005	1.501	1.000	0.525	4.93	4	8	18	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0047	0.0771	1.002	1.244	1.000	0.709	4.45	4	6	10	1.001
	200	1.0000	0.0028	0.0906	1.003	1.325	1.000	0.662	4.54	4	6	11	1.001
	300	1.0000	0.0020	0.0962	1.003	1.370	1.000	0.648	4.58	4	7	16	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0282	1.001	1.102	1.000	0.880	4.15	4	5	8	1.001
	200	1.0000	0.0010	0.0342	1.001	1.133	1.000	0.856	4.19	4	5	11	1.000
	300	1.0000	0.0007	0.0362	1.001	1.185	1.000	0.846	4.20	4	5	9	1.000

Notes: See notes to Table 1.

Table 208: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0187	0.1974	1.039	2.250	1.000	0.499	5.79	4	12	26	1.015
	200	0.9998	0.0133	0.2306	1.068	3.586	0.999	0.476	6.60	4	16	54	1.013
	300	0.9998	0.0104	0.2338	1.083	5.384	0.999	0.496	7.07	4	20	52	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0130	0.1468	1.026	1.857	0.999	0.604	5.25	4	10	23	1.009
	200	0.9996	0.0094	0.1774	1.044	2.652	0.999	0.574	5.85	4	14	50	1.007
	300	0.9998	0.0074	0.1840	1.054	3.583	0.999	0.581	6.20	4	17	45	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0057	0.0721	1.010	1.269	0.998	0.780	4.54	4	7	20	1.001
	200	0.9996	0.0042	0.0948	1.018	1.654	0.999	0.737	4.82	4	9	37	1.002
	300	0.9993	0.0033	0.1004	1.024	2.015	0.997	0.739	4.98	4	10	38	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0185	0.1954	1.036	2.170	1.000	0.506	5.78	4	12	26	1.002
	200	0.9998	0.0132	0.2287	1.064	3.419	0.999	0.482	6.59	4	16	54	1.002
	300	0.9998	0.0103	0.2322	1.080	5.291	0.999	0.502	7.06	4	20	52	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0129	0.1453	1.024	1.823	0.999	0.610	5.24	4	10	23	1.001
	200	0.9996	0.0094	0.1762	1.042	2.626	0.999	0.578	5.84	4	13.5	50	1.002
	300	0.9998	0.0074	0.1831	1.053	3.527	0.999	0.585	6.20	4	17	45	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0056	0.0719	1.010	1.268	0.998	0.781	4.54	4	7	20	1.000
	200	0.9996	0.0042	0.0944	1.017	1.653	0.999	0.738	4.82	4	9	37	1.001
	300	0.9993	0.0033	0.1001	1.024	2.011	0.997	0.740	4.98	4	10	38	1.000

Notes: See notes to Table 1.

Table 209: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0237	0.2782	1.008	1.734	1.000	0.291	6.28	4	11	26	1.009
	200	1.0000	0.0168	0.3427	1.013	2.022	1.000	0.228	7.28	4	15	24	1.007
	300	1.0000	0.0141	0.3793	1.016	2.478	1.000	0.212	8.19	4	18	40	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0170	0.2152	1.006	1.517	1.000	0.394	5.63	4	10	22	1.005
	200	1.0000	0.0119	0.2722	1.009	1.694	1.000	0.312	6.33	4	12	21	1.003
	300	1.0000	0.0101	0.3039	1.011	2.052	1.000	0.303	6.99	4	15	37	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0079	0.1147	1.003	1.239	1.000	0.614	4.76	4	7	20	1.002
	200	1.0000	0.0054	0.1494	1.005	1.329	1.000	0.541	5.07	4	9	15	1.000
	300	1.0000	0.0047	0.1747	1.005	1.458	1.000	0.514	5.39	4	10	28	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0237	0.2772	1.008	1.688	1.000	0.294	6.27	4	11	26	1.001
	200	1.0000	0.0167	0.3421	1.012	1.986	1.000	0.230	7.28	4	15	24	1.000
	300	1.0000	0.0141	0.3789	1.015	2.443	1.000	0.213	8.18	4	18	40	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0170	0.2148	1.006	1.490	1.000	0.395	5.63	4	10	22	1.001
	200	1.0000	0.0119	0.2719	1.009	1.679	1.000	0.312	6.33	4	12	21	1.000
	300	1.0000	0.0101	0.3036	1.011	2.013	1.000	0.303	6.99	4	15	37	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0079	0.1145	1.003	1.232	1.000	0.615	4.76	4	7	20	1.001
	200	1.0000	0.0054	0.1494	1.005	1.329	1.000	0.541	5.07	4	9	15	1.000
	300	1.0000	0.0047	0.1745	1.005	1.453	1.000	0.515	5.39	4	10	28	1.000

Notes: See notes to Table 1.

Table 210: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0252	0.3054	1.005	1.672	1.000	0.218	6.42	4	11	20	1.009
	200	1.0000	0.0177	0.3759	1.007	1.942	1.000	0.156	7.47	4	14	27	1.007
	300	1.0000	0.0142	0.4110	1.008	2.050	1.000	0.139	8.22	4	16	36	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0180	0.2376	1.004	1.493	1.000	0.325	5.73	4	10	19	1.007
	200	1.0000	0.0124	0.2974	1.005	1.634	1.000	0.240	6.44	4	12	22	1.003
	300	1.0000	0.0101	0.3326	1.006	1.774	1.000	0.213	6.99	4	13	35	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0084	0.1271	1.002	1.232	1.000	0.562	4.80	4	7	17	1.001
	200	1.0000	0.0057	0.1641	1.002	1.317	1.000	0.479	5.12	4	8.5	18	1.000
	300	1.0000	0.0047	0.1891	1.003	1.370	1.000	0.448	5.40	4	9	19	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0251	0.3044	1.005	1.631	1.000	0.220	6.41	4	11	20	1.001
	200	1.0000	0.0177	0.3754	1.007	1.907	1.000	0.157	7.46	4	14	27	1.001
	300	1.0000	0.0142	0.4106	1.008	2.029	1.000	0.139	8.21	4	16	36	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0179	0.2366	1.003	1.449	1.000	0.328	5.72	4	10	19	1.000
	200	1.0000	0.0124	0.2971	1.005	1.608	1.000	0.240	6.44	4	12	22	1.000
	300	1.0000	0.0101	0.3322	1.006	1.751	1.000	0.214	6.99	4	13	35	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0083	0.1270	1.002	1.224	1.000	0.562	4.80	4	7	17	1.000
	200	1.0000	0.0057	0.1641	1.002	1.317	1.000	0.479	5.12	4	8.5	18	1.000
	300	1.0000	0.0047	0.1889	1.003	1.358	1.000	0.449	5.40	4	9	19	1.000

Notes: See notes to Table 1.

Table 211: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9974	0.0120	0.1394	1.027	1.682	0.990	0.610	5.14	4	10	25	1.012
	200	0.9956	0.0075	0.1536	1.035	2.283	0.983	0.606	5.45	4	11	43	1.010
	300	0.9943	0.0065	0.1802	1.051	2.741	0.978	0.550	5.91	4	14	48	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9954	0.0079	0.1004	1.019	1.396	0.983	0.694	4.74	4	8	23	1.006
	200	0.9934	0.0050	0.1111	1.024	1.919	0.974	0.686	4.95	4	9	35	1.006
	300	0.9916	0.0045	0.1357	1.035	2.135	0.968	0.629	5.30	4	12	45	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9888	0.0032	0.0461	1.010	1.167	0.957	0.818	4.26	4	6	17	1.002
	200	0.9841	0.0021	0.0518	1.011	1.325	0.940	0.793	4.34	4	6	24	1.002
	300	0.9801	0.0018	0.0646	1.016	1.367	0.926	0.757	4.45	3	7	29	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0119	0.1375	1.025	1.624	0.990	0.619	5.13	4	10	25	1.002
	200	0.9956	0.0074	0.1520	1.033	2.229	0.983	0.611	5.43	4	11	43	1.001
	300	0.9943	0.0065	0.1788	1.050	2.683	0.978	0.555	5.90	4	14	48	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9954	0.0079	0.0996	1.018	1.358	0.983	0.698	4.74	4	8	23	1.001
	200	0.9934	0.0050	0.1102	1.023	1.861	0.974	0.689	4.95	4	9	35	1.000
	300	0.9916	0.0045	0.1350	1.034	2.087	0.968	0.632	5.29	4	12	45	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9888	0.0032	0.0460	1.009	1.157	0.957	0.819	4.26	4	6	17	1.002
	200	0.9841	0.0020	0.0514	1.011	1.304	0.940	0.795	4.34	4	6	24	1.001
	300	0.9801	0.0018	0.0645	1.015	1.361	0.926	0.758	4.45	3	7	29	1.000

Notes: See notes to Table 1.

Table 212: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0141	0.1894	1.007	1.497	1.000	0.436	5.35	4	9	19	1.008
	200	1.0000	0.0095	0.2286	1.008	1.675	1.000	0.391	5.86	4	11	23	1.006
	300	1.0000	0.0075	0.2528	1.010	1.808	1.000	0.364	6.23	4	12	30	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0096	0.1373	1.005	1.374	1.000	0.555	4.92	4	8	15	1.005
	200	1.0000	0.0063	0.1668	1.006	1.482	1.000	0.511	5.24	4	9	19	1.002
	300	1.0000	0.0051	0.1877	1.007	1.568	1.000	0.480	5.52	4	11	27	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0039	0.0622	1.002	1.189	1.000	0.770	4.37	4	6	11	1.003
	200	1.0000	0.0026	0.0798	1.003	1.244	1.000	0.724	4.52	4	7	15	1.002
	300	1.0000	0.0021	0.0907	1.003	1.263	1.000	0.703	4.62	4	7	19	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0140	0.1883	1.007	1.458	1.000	0.439	5.34	4	9	19	1.002
	200	1.0000	0.0095	0.2278	1.008	1.659	1.000	0.395	5.85	4	11	23	1.001
	300	1.0000	0.0075	0.2527	1.010	1.799	1.000	0.364	6.23	4	12	30	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0095	0.1366	1.005	1.346	1.000	0.557	4.91	4	8	15	1.001
	200	1.0000	0.0063	0.1666	1.006	1.467	1.000	0.511	5.24	4	9	19	1.000
	300	1.0000	0.0051	0.1876	1.007	1.563	1.000	0.480	5.52	4	11	27	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0039	0.0618	1.002	1.164	1.000	0.771	4.37	4	6	11	1.000
	200	1.0000	0.0026	0.0795	1.003	1.227	1.000	0.725	4.51	4	7	15	1.000
	300	1.0000	0.0021	0.0906	1.003	1.260	1.000	0.704	4.62	4	7	19	1.000

Notes: See notes to Table 1.

Table 213: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0142	0.1986	1.004	1.492	1.000	0.398	5.37	4	9	20	1.005
	200	1.0000	0.0098	0.2537	1.005	1.611	1.000	0.304	5.93	4	10	18	1.006
	300	1.0000	0.0082	0.2908	1.007	1.817	1.000	0.253	6.42	4	12	25	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0097	0.1459	1.003	1.360	1.000	0.505	4.93	4	7	15	1.002
	200	1.0000	0.0066	0.1861	1.004	1.454	1.000	0.427	5.29	4	9	16	1.003
	300	1.0000	0.0055	0.2188	1.005	1.598	1.000	0.370	5.62	4	10	22	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0039	0.0664	1.001	1.176	1.000	0.733	4.38	4	6	9	1.001
	200	1.0000	0.0025	0.0833	1.002	1.245	1.000	0.694	4.50	4	6	12	1.002
	300	1.0000	0.0023	0.1066	1.003	1.309	1.000	0.632	4.68	4	7	17	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0142	0.1981	1.004	1.480	1.000	0.399	5.36	4	9	20	1.001
	200	1.0000	0.0098	0.2530	1.005	1.577	1.000	0.306	5.92	4	10	18	1.000
	300	1.0000	0.0081	0.2900	1.007	1.803	1.000	0.257	6.41	4	12	25	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0097	0.1458	1.003	1.356	1.000	0.506	4.93	4	7	15	1.001
	200	1.0000	0.0066	0.1857	1.003	1.428	1.000	0.429	5.28	4	9	16	1.000
	300	1.0000	0.0055	0.2183	1.005	1.586	1.000	0.372	5.62	4	10	22	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0039	0.0663	1.001	1.173	1.000	0.734	4.38	4	6	9	1.000
	200	1.0000	0.0025	0.0831	1.002	1.224	1.000	0.694	4.50	4	6	12	1.000
	300	1.0000	0.0023	0.1065	1.003	1.305	1.000	0.632	4.68	4	7	17	1.000

Notes: See notes to Table 1.

Table 214: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9194	0.0060	0.0884	1.020	1.536	0.760	0.555	4.25	3	7	25	1.006
	200	0.8936	0.0041	0.1017	1.026	1.611	0.709	0.506	4.38	2	8	26	1.007
	300	0.8615	0.0027	0.1027	1.026	1.591	0.640	0.453	4.26	2	8	31	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8936	0.0036	0.0581	1.014	1.191	0.698	0.565	3.92	2	6	18	1.003
	200	0.8634	0.0026	0.0691	1.020	1.339	0.645	0.510	3.96	2	7	22	1.005
	300	0.8258	0.0018	0.0731	1.021	1.305	0.575	0.443	3.82	1	7	27	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8066	0.0011	0.0204	1.011	1.069	0.534	0.494	3.33	1	4	12	1.001
	200	0.7713	0.0010	0.0317	1.017	1.137	0.481	0.428	3.28	1	5	12	1.002
	300	0.7296	0.0006	0.0314	1.021	1.141	0.421	0.373	3.10	0	5	19	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9194	0.0059	0.0875	1.019	1.487	0.760	0.557	4.25	3	7	25	1.000
	200	0.8936	0.0041	0.1004	1.024	1.542	0.709	0.509	4.37	2	8	26	1.001
	300	0.8615	0.0027	0.1018	1.025	1.531	0.640	0.454	4.25	2	8	31	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8936	0.0036	0.0577	1.014	1.160	0.698	0.566	3.92	2	6	18	1.000
	200	0.8634	0.0025	0.0683	1.019	1.277	0.645	0.513	3.95	2	7	22	1.000
	300	0.8258	0.0017	0.0719	1.020	1.260	0.575	0.444	3.82	1	7	27	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8065	0.0011	0.0206	1.011	1.064	0.534	0.495	3.33	1	4	12	1.000
	200	0.7713	0.0010	0.0313	1.017	1.120	0.481	0.428	3.28	1	5	12	1.000
	300	0.7296	0.0006	0.0309	1.020	1.124	0.421	0.373	3.10	0	5	19	1.000

Notes: See notes to Table 1.

Table 215: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0070	0.1065	1.004	1.351	1.000	0.635	4.68	4	7	14	1.006
	200	1.0000	0.0045	0.1280	1.006	1.438	1.000	0.593	4.88	4	8	21	1.003
	300	0.9999	0.0035	0.1424	1.007	1.490	1.000	0.563	5.03	4	9	22	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0042	0.0678	1.003	1.222	1.000	0.746	4.40	4	6	11	1.003
	200	0.9999	0.0029	0.0882	1.005	1.338	1.000	0.692	4.57	4	7	18	1.002
	300	0.9999	0.0022	0.0987	1.005	1.352	1.000	0.668	4.66	4	7	20	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0226	1.001	1.096	1.000	0.907	4.13	4	5	9	1.001
	200	0.9999	0.0010	0.0341	1.002	1.148	1.000	0.861	4.19	4	5	12	1.001
	300	0.9998	0.0008	0.0391	1.002	1.171	0.999	0.847	4.23	4	5	13	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0070	0.1057	1.004	1.322	1.000	0.638	4.67	4	7	14	1.001
	200	1.0000	0.0045	0.1276	1.006	1.432	1.000	0.594	4.88	4	8	21	1.000
	300	0.9999	0.0035	0.1422	1.007	1.477	1.000	0.564	5.03	4	9	22	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0042	0.0674	1.003	1.214	1.000	0.748	4.40	4	6	11	1.001
	200	0.9999	0.0029	0.0878	1.005	1.330	1.000	0.694	4.56	4	7	18	1.000
	300	0.9999	0.0022	0.0986	1.005	1.341	1.000	0.668	4.66	4	7	20	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0224	1.001	1.093	1.000	0.908	4.12	4	5	9	1.000
	200	0.9999	0.0010	0.0339	1.002	1.144	1.000	0.862	4.19	4	5	12	1.000
	300	0.9998	0.0008	0.0391	1.002	1.171	0.999	0.847	4.23	4	5	13	1.000

Notes: See notes to Table 1.

Table 216: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0067	0.1069	1.003	1.366	1.000	0.610	4.64	4	7	13	1.004
	200	1.0000	0.0047	0.1412	1.004	1.506	1.000	0.527	4.91	4	8	18	1.003
	300	1.0000	0.0031	0.1415	1.004	1.514	1.000	0.527	4.92	4	8	18	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0041	0.0690	1.002	1.254	1.000	0.727	4.40	4	6	12	1.002
	200	1.0000	0.0029	0.0944	1.003	1.367	1.000	0.652	4.57	4	7	17	1.002
	300	1.0000	0.0020	0.0947	1.003	1.378	1.000	0.649	4.58	4	7	13	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0242	1.001	1.112	1.000	0.895	4.13	4	5	9	1.001
	200	1.0000	0.0010	0.0346	1.001	1.157	1.000	0.856	4.19	4	5	11	1.002
	300	1.0000	0.0006	0.0323	1.001	1.140	1.000	0.864	4.18	4	5	10	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0067	0.1062	1.003	1.349	1.000	0.613	4.64	4	7	13	1.001
	200	1.0000	0.0046	0.1408	1.004	1.493	1.000	0.528	4.91	4	8	18	1.000
	300	1.0000	0.0031	0.1410	1.004	1.505	1.000	0.529	4.92	4	8	18	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0041	0.0687	1.002	1.246	1.000	0.728	4.39	4	6	12	1.001
	200	1.0000	0.0029	0.0941	1.003	1.348	1.000	0.653	4.57	4	7	17	1.000
	300	1.0000	0.0019	0.0945	1.003	1.368	1.000	0.650	4.58	4	7	13	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0241	1.001	1.106	1.000	0.896	4.13	4	5	9	1.000
	200	1.0000	0.0010	0.0343	1.001	1.151	1.000	0.857	4.19	4	5	11	1.000
	300	1.0000	0.0006	0.0322	1.001	1.137	1.000	0.865	4.18	4	5	10	1.000

Notes: See notes to Table 1.

Table 217: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0210	0.1649	1.067	25.673	1.000	0.591	6.02	4	14	61	1.012
	200	0.9998	0.0178	0.1973	1.301	211.385	0.999	0.565	7.50	4	20	187	1.030
	300	0.9996	0.0130	0.1865	1.284	138.931	0.999	0.598	7.85	4	19.5	262	1.045
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0147	0.1250	1.046	19.138	1.000	0.671	5.41	4	11	56	1.008
	200	0.9998	0.0123	0.1516	1.275	290.136	0.999	0.643	6.42	4	15.5	187	1.016
	300	0.9995	0.0090	0.1430	1.404	776.856	0.998	0.671	6.67	4	14	265	1.032
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0065	0.0634	1.019	8.246	0.998	0.817	4.62	4	7	47	1.004
	200	0.9985	0.0060	0.0836	1.133	114.932	0.994	0.778	5.16	4	9	185	1.014
	300	0.9989	0.0037	0.0771	1.072	75.534	0.996	0.800	5.10	4	8	266	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0208	0.1631	1.066	25.650	1.000	0.595	5.99	4	14	61	1.004
	200	0.9998	0.0177	0.1960	1.288	206.878	0.999	0.569	7.47	4	20	187	1.023
	300	0.9996	0.0130	0.1855	1.279	138.883	0.999	0.601	7.84	4	19	262	1.036
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0146	0.1239	1.045	19.131	1.000	0.675	5.40	4	11	56	1.003
	200	0.9998	0.0123	0.1506	1.273	289.941	0.999	0.646	6.40	4	15	187	1.012
	300	0.9995	0.0093	0.1427	1.263	250.991	0.998	0.672	6.75	4	14	263	1.031
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0065	0.0630	1.018	8.213	0.998	0.818	4.62	4	7	47	1.001
	200	0.9984	0.0059	0.0829	1.132	114.930	0.994	0.780	5.16	4	9	185	1.011
	300	0.9989	0.0037	0.0768	1.072	75.533	0.996	0.802	5.10	4	8	266	1.005

Notes: See notes to Table 1.

Table 218: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0313	0.2274	1.014	18.549	1.000	0.451	7.01	4	19	80	1.009
	200	1.0000	0.0232	0.2622	1.030	49.423	1.000	0.380	8.54	4	23	141	1.005
	300	1.0000	0.0180	0.2811	1.045	94.818	1.000	0.363	9.32	4	27	208	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0228	0.1775	1.010	14.397	1.000	0.544	6.18	4	13	78	1.006
	200	1.0000	0.0172	0.2074	1.020	36.357	1.000	0.484	7.36	4	17	136	1.003
	300	1.0000	0.0131	0.2217	1.030	75.639	1.000	0.460	7.88	4	20	201	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0109	0.0967	1.004	7.694	1.000	0.719	5.05	4	8	73	1.002
	200	1.0000	0.0086	0.1142	1.010	21.989	1.000	0.684	5.69	4	9	128	1.001
	300	1.0000	0.0063	0.1271	1.012	45.196	1.000	0.658	5.86	4	10	187	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0312	0.2266	1.013	17.345	1.000	0.453	7.00	4	19	80	1.002
	200	1.0000	0.0231	0.2618	1.029	49.417	1.000	0.381	8.53	4	23	141	1.000
	300	1.0000	0.0179	0.2805	1.044	94.808	1.000	0.365	9.31	4	27	208	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0227	0.1769	1.009	14.374	1.000	0.546	6.18	4	13	78	1.001
	200	1.0000	0.0171	0.2073	1.020	36.274	1.000	0.484	7.36	4	17	136	1.001
	300	1.0000	0.0131	0.2216	1.030	75.631	1.000	0.460	7.87	4	19.5	201	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0109	0.0964	1.004	7.686	1.000	0.721	5.05	4	8	73	1.000
	200	1.0000	0.0086	0.1141	1.010	21.989	1.000	0.684	5.69	4	9	128	1.001
	300	1.0000	0.0063	0.1271	1.012	45.196	1.000	0.658	5.86	4	10	187	1.000

Notes: See notes to Table 1.

Table 219: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0319	0.2373	1.007	12.231	1.000	0.398	7.07	4	17	77	1.009
	200	1.0000	0.0226	0.2881	1.012	23.066	1.000	0.325	8.43	4	22	123	1.006
	300	1.0000	0.0182	0.3005	1.017	55.943	1.000	0.319	9.38	4	26.5	186	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0237	0.1835	1.005	9.599	1.000	0.505	6.27	4	14	75	1.005
	200	1.0000	0.0165	0.2259	1.009	18.417	1.000	0.425	7.23	4	16	114	1.003
	300	1.0000	0.0132	0.2397	1.012	42.471	1.000	0.408	7.90	4	20	177	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0123	0.1021	1.003	6.116	1.000	0.697	5.18	4	8	71	1.001
	200	1.0000	0.0077	0.1185	1.004	11.561	1.000	0.650	5.52	4	9	102	1.001
	300	1.0000	0.0063	0.1343	1.005	22.420	1.000	0.625	5.85	4	10	152	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0318	0.2363	1.006	12.209	1.000	0.399	7.06	4	17	77	1.001
	200	1.0000	0.0226	0.2873	1.012	23.046	1.000	0.326	8.42	4	22	123	1.000
	300	1.0000	0.0182	0.3000	1.017	55.932	1.000	0.319	9.38	4	26.5	186	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0236	0.1829	1.005	9.575	1.000	0.506	6.27	4	14	75	1.000
	200	1.0000	0.0165	0.2256	1.009	18.405	1.000	0.425	7.23	4	16	114	1.000
	300	1.0000	0.0132	0.2395	1.012	42.465	1.000	0.409	7.90	4	20	177	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0123	0.1021	1.003	6.110	1.000	0.697	5.18	4	8	71	1.000
	200	1.0000	0.0077	0.1182	1.004	11.560	1.000	0.651	5.52	4	9	102	1.000
	300	1.0000	0.0063	0.1343	1.005	22.420	1.000	0.625	5.85	4	10	152	1.000

Notes: See notes to Table 1.

Table 220: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9968	0.0142	0.1176	1.051	30.426	0.987	0.684	5.35	4	10	61	1.010
	200	0.9958	0.0105	0.1202	1.173	178.592	0.983	0.692	6.05	4	12	191	1.025
	300	0.9941	0.0098	0.1354	1.325	238.362	0.978	0.661	6.89	4	13	270	1.054
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9948	0.0096	0.0839	1.033	16.211	0.980	0.758	4.90	4	8	59	1.005
	200	0.9938	0.0072	0.0876	1.190	483.404	0.976	0.752	5.39	4	9	190	1.014
	300	0.9921	0.0070	0.0999	1.187	141.244	0.970	0.722	6.04	4	10	268	1.042
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9888	0.0039	0.0372	1.013	11.823	0.958	0.855	4.33	4	5	52	1.002
	200	0.9849	0.0027	0.0414	1.030	31.987	0.943	0.826	4.46	3	6	82	1.001
	300	0.9810	0.0032	0.0467	1.109	98.792	0.927	0.801	4.87	3	6	269	1.018
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9968	0.0141	0.1165	1.049	17.794	0.987	0.688	5.34	4	10	61	1.003
	200	0.9958	0.0105	0.1193	1.169	176.871	0.983	0.695	6.04	4	12	191	1.019
	300	0.9940	0.0095	0.1345	1.303	244.465	0.977	0.663	6.80	4	13	270	1.041
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9948	0.0096	0.0833	1.032	16.062	0.980	0.759	4.90	4	8	59	1.002
	200	0.9938	0.0074	0.0873	1.132	119.216	0.976	0.753	5.43	4	9	190	1.013
	300	0.9921	0.0070	0.0995	1.191	142.246	0.970	0.724	6.03	4	10	268	1.038
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9888	0.0039	0.0369	1.013	11.821	0.958	0.856	4.33	4	5	52	1.001
	200	0.9849	0.0027	0.0413	1.030	31.982	0.943	0.826	4.46	3	6	82	1.000
	300	0.9810	0.0032	0.0465	1.109	98.792	0.927	0.802	4.87	3	6	269	1.017

Notes: See notes to Table 1.

Table 221: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0173	0.1518	1.008	7.709	1.000	0.575	5.66	4	12	66	1.009
	200	1.0000	0.0117	0.1725	1.013	19.210	1.000	0.545	6.30	4	13	111	1.005
	300	1.0000	0.0104	0.1870	1.028	52.840	1.000	0.526	7.07	4	15	172	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0115	0.1093	1.006	6.248	1.000	0.681	5.11	4	9	63	1.004
	200	1.0000	0.0080	0.1257	1.010	14.218	1.000	0.647	5.57	4	10	105	1.002
	300	1.0000	0.0072	0.1388	1.015	37.740	1.000	0.622	6.13	4	11	155	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0045	0.0508	1.002	3.234	1.000	0.835	4.43	4	6	55	1.000
	200	1.0000	0.0034	0.0607	1.005	7.944	1.000	0.812	4.67	4	6	87	1.001
	300	1.0000	0.0030	0.0692	1.007	11.606	1.000	0.796	4.90	4	7	107	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0171	0.1503	1.008	7.682	1.000	0.580	5.65	4	12	66	1.002
	200	1.0000	0.0117	0.1719	1.013	19.201	1.000	0.547	6.30	4	13	111	1.001
	300	1.0000	0.0103	0.1865	1.028	52.817	1.000	0.526	7.06	4	15	172	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0115	0.1088	1.006	6.217	1.000	0.682	5.10	4	9	63	1.000
	200	1.0000	0.0080	0.1255	1.009	14.217	1.000	0.647	5.57	4	10	105	1.001
	300	1.0000	0.0072	0.1384	1.015	37.736	1.000	0.623	6.12	4	11	155	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0045	0.0508	1.002	3.234	1.000	0.835	4.43	4	6	55	1.000
	200	1.0000	0.0034	0.0605	1.005	7.939	1.000	0.813	4.67	4	6	87	1.000
	300	1.0000	0.0030	0.0692	1.007	11.605	1.000	0.796	4.90	4	7	107	1.000

Notes: See notes to Table 1.

Table 222: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0189	0.1657	1.004	5.248	1.000	0.550	5.81	4	12	54	1.006
	200	1.0000	0.0119	0.1718	1.005	15.982	1.000	0.530	6.34	4	13	131	1.007
	300	1.0000	0.0115	0.2063	1.011	31.798	1.000	0.481	7.40	4	17	164	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0128	0.1216	1.003	4.207	1.000	0.644	5.23	4	9	51	1.004
	200	1.0000	0.0083	0.1282	1.004	13.126	1.000	0.631	5.64	4	9.5	123	1.004
	300	1.0000	0.0079	0.1538	1.007	24.059	1.000	0.592	6.35	4	12.5	145	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0052	0.0575	1.001	2.652	1.000	0.812	4.50	4	6	44	1.002
	200	1.0000	0.0035	0.0610	1.002	5.126	1.000	0.808	4.68	4	6	98	1.000
	300	1.0000	0.0033	0.0732	1.003	10.351	1.000	0.784	4.97	4	7	117	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0188	0.1650	1.004	5.220	1.000	0.551	5.80	4	12	54	1.002
	200	1.0000	0.0119	0.1711	1.005	15.959	1.000	0.531	6.33	4	13	131	1.001
	300	1.0000	0.0114	0.2055	1.011	31.776	1.000	0.483	7.39	4	17	164	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0128	0.1212	1.003	4.186	1.000	0.645	5.23	4	9	51	1.001
	200	1.0000	0.0083	0.1278	1.004	13.118	1.000	0.633	5.63	4	9.5	123	1.001
	300	1.0000	0.0079	0.1535	1.007	24.055	1.000	0.593	6.35	4	12.5	145	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0052	0.0573	1.001	2.626	1.000	0.813	4.50	4	6	44	1.000
	200	1.0000	0.0035	0.0610	1.002	5.126	1.000	0.808	4.68	4	6	98	1.000
	300	1.0000	0.0033	0.0732	1.003	10.351	1.000	0.784	4.97	4	7	117	1.000

Notes: See notes to Table 1.

Table 223: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9176	0.0076	0.0724	1.029	13.251	0.767	0.610	4.40	2	7	67	1.006
	200	0.8931	0.0038	0.0722	1.030	11.051	0.707	0.565	4.32	2	7	71	1.004
	300	0.8739	0.0048	0.0771	1.135	102.691	0.652	0.514	4.92	2	7	273	1.024
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8906	0.0051	0.0503	1.020	8.344	0.707	0.601	4.06	2	6	64	1.005
	200	0.8610	0.0022	0.0478	1.020	5.822	0.635	0.544	3.88	2	5	54	1.002
	300	0.8391	0.0038	0.0554	1.137	91.966	0.583	0.488	4.47	2	6	273	1.026
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8081	0.0021	0.0221	1.015	5.117	0.539	0.502	3.43	1	4	58	1.002
	200	0.7701	0.0007	0.0200	1.015	1.645	0.470	0.438	3.21	1	4	22	1.004
	300	0.7490	0.0015	0.0243	1.078	42.063	0.435	0.397	3.43	1	4	264	1.007
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9176	0.0075	0.0712	1.028	13.229	0.767	0.612	4.39	2	7	67	1.002
	200	0.8931	0.0038	0.0717	1.030	11.031	0.707	0.566	4.31	2	7	71	1.001
	300	0.8739	0.0048	0.0766	1.136	99.695	0.652	0.514	4.91	2	7	273	1.021
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8906	0.0050	0.0491	1.019	8.304	0.707	0.604	4.05	2	6	64	1.000
	200	0.8610	0.0022	0.0474	1.019	5.800	0.635	0.544	3.88	2	5	54	1.000
	300	0.8391	0.0038	0.0550	1.136	91.965	0.583	0.488	4.47	2	6	273	1.025
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8081	0.0021	0.0216	1.015	5.110	0.539	0.502	3.43	1	4	58	1.001
	200	0.7700	0.0007	0.0194	1.015	1.584	0.470	0.438	3.21	1	4	22	1.000
	300	0.7490	0.0014	0.0242	1.078	42.062	0.435	0.398	3.43	1	4	264	1.006

Notes: See notes to Table 1.

Table 224: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0095	0.0911	1.006	5.058	1.000	0.732	4.91	4	8	59	1.005
	200	1.0000	0.0057	0.0889	1.008	22.988	1.000	0.732	5.11	4	7	131	1.005
	300	1.0000	0.0052	0.1042	1.012	33.404	1.000	0.708	5.53	4	9	138	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0061	0.0636	1.005	4.305	1.000	0.804	4.58	4	7	57	1.003
	200	1.0000	0.0036	0.0593	1.005	16.758	1.000	0.820	4.72	4	6	122	1.003
	300	1.0000	0.0036	0.0747	1.009	24.246	1.000	0.778	5.05	4	7	124	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0020	0.0244	1.002	1.718	1.000	0.917	4.20	4	5	37	1.001
	200	1.0000	0.0014	0.0244	1.003	13.996	1.000	0.923	4.28	4	5	118	1.000
	300	1.0000	0.0014	0.0312	1.004	7.411	1.000	0.900	4.41	4	5	83	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0094	0.0906	1.006	5.038	1.000	0.733	4.90	4	8	59	1.002
	200	1.0000	0.0056	0.0883	1.008	22.982	1.000	0.734	5.10	4	7	131	1.000
	300	1.0000	0.0051	0.1034	1.012	33.394	1.000	0.710	5.52	4	9	138	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0061	0.0632	1.004	4.288	1.000	0.805	4.58	4	6	57	1.001
	200	1.0000	0.0036	0.0588	1.005	16.752	1.000	0.822	4.71	4	6	122	1.000
	300	1.0000	0.0035	0.0743	1.009	24.243	1.000	0.779	5.05	4	7	124	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0020	0.0242	1.002	1.707	1.000	0.918	4.19	4	5	37	1.000
	200	1.0000	0.0014	0.0244	1.003	13.996	1.000	0.923	4.28	4	5	118	1.000
	300	1.0000	0.0014	0.0310	1.004	7.408	1.000	0.900	4.41	4	5	83	1.001

Notes: See notes to Table 1.

Table 225: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0093	0.0883	1.003	4.257	1.000	0.725	4.89	4	7	62	1.005
	200	1.0000	0.0069	0.1064	1.005	9.566	1.000	0.695	5.34	4	9	105	1.005
	300	1.0000	0.0042	0.1024	1.005	15.553	1.000	0.687	5.26	4	8	170	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0058	0.0581	1.002	3.051	1.000	0.811	4.56	4	6	54	1.004
	200	1.0000	0.0044	0.0738	1.003	6.557	1.000	0.781	4.87	4	7	98	1.004
	300	1.0000	0.0028	0.0691	1.004	12.886	1.000	0.778	4.82	4	6	156	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0020	0.0223	1.001	1.818	1.000	0.923	4.19	4	5	47	1.002
	200	1.0000	0.0016	0.0308	1.001	2.564	1.000	0.896	4.31	4	5	75	1.001
	300	1.0000	0.0010	0.0269	1.001	8.781	1.000	0.902	4.30	4	5	138	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0092	0.0876	1.003	4.202	1.000	0.726	4.88	4	7	62	1.001
	200	1.0000	0.0068	0.1057	1.004	9.536	1.000	0.696	5.33	4	9	105	1.001
	300	1.0000	0.0042	0.1018	1.005	15.524	1.000	0.689	5.25	4	8	170	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0058	0.0576	1.002	2.997	1.000	0.812	4.56	4	6	54	1.001
	200	1.0000	0.0044	0.0733	1.003	6.492	1.000	0.782	4.86	4	7	98	1.001
	300	1.0000	0.0027	0.0685	1.003	12.862	1.000	0.780	4.81	4	6	156	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0020	0.0220	1.001	1.797	1.000	0.924	4.19	4	5	47	1.000
	200	1.0000	0.0016	0.0307	1.001	2.537	1.000	0.896	4.31	4	5	75	1.001
	300	1.0000	0.0010	0.0267	1.001	8.775	1.000	0.903	4.30	4	5	138	1.000

Notes: See notes to Table 1.

Table 226: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9774	0.0730	0.4926	1.192	10.934	0.912	0.137	10.92	4	25	44	1.100
	200	0.9620	0.0577	0.5680	1.392	27.794	0.858	0.114	15.16	4	40	84	1.104
	300	0.9578	0.0539	0.6161	1.863	128.926	0.836	0.092	19.79	4	55	272	1.108
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9714	0.0583	0.4324	1.155	9.060	0.889	0.185	9.48	4	23	43	1.109
	200	0.9538	0.0465	0.5113	1.315	22.782	0.830	0.143	12.93	4	35	77	1.109
	300	0.9508	0.0434	0.5610	1.686	230.649	0.810	0.122	16.66	4	48	257	1.115
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9493	0.0357	0.3165	1.119	6.250	0.807	0.279	7.22	3	17	34	1.135
	200	0.9320	0.0284	0.3867	1.205	12.504	0.758	0.215	9.29	3	26	63	1.130
	300	0.9255	0.0266	0.4392	1.339	23.557	0.729	0.183	11.57	3	35	78	1.135
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9705	0.0724	0.4891	1.192	10.846	0.884	0.139	10.83	4	25	44	1.061
	200	0.9548	0.0573	0.5636	1.389	27.598	0.832	0.112	15.05	4	40	84	1.058
	300	0.9506	0.0536	0.6117	1.852	124.644	0.810	0.090	19.66	4	55	272	1.065
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9633	0.0578	0.4289	1.159	9.089	0.858	0.184	9.40	4	23	43	1.071
	200	0.9459	0.0461	0.5062	1.314	22.665	0.802	0.141	12.82	4	35	77	1.067
	300	0.9415	0.0428	0.5553	1.690	232.135	0.776	0.118	16.45	4	48	93	1.063
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9385	0.0353	0.3133	1.124	6.331	0.766	0.267	7.14	3	17	34	1.091
	200	0.9203	0.0281	0.3821	1.211	12.543	0.723	0.213	9.19	3	26	63	1.079
	300	0.9136	0.0263	0.4345	1.344	23.554	0.688	0.173	11.45	3	35	78	1.083

Notes: See notes to Table 1.

Table 227: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0904	0.6172	1.031	5.209	1.000	0.023	12.68	5	23	35	1.007
	200	1.0000	0.0727	0.7181	1.056	8.880	1.000	0.006	18.25	7	34	62	1.007
	300	1.0000	0.0623	0.7577	1.081	13.428	1.000	0.009	22.45	7	43	71	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0735	0.5606	1.025	4.275	1.000	0.042	11.06	5	20	33	1.004
	200	1.0000	0.0590	0.6671	1.044	7.084	1.000	0.016	15.57	6	30	55	1.004
	300	1.0000	0.0505	0.7091	1.061	10.285	1.000	0.019	18.94	6	38	66	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0461	0.4363	1.014	2.971	1.000	0.113	8.43	4	16	29	1.001
	200	1.0000	0.0367	0.5426	1.025	4.423	1.000	0.064	11.19	4	22.5	47	1.002
	300	1.0000	0.0313	0.5903	1.034	6.033	1.000	0.054	13.26	4	28	53	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0903	0.6170	1.031	5.166	1.000	0.023	12.67	5	23	35	1.001
	200	1.0000	0.0727	0.7180	1.056	8.811	1.000	0.006	18.24	7	34	62	1.001
	300	1.0000	0.0623	0.7577	1.081	13.309	1.000	0.009	22.44	7	43	71	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0735	0.5603	1.024	4.256	1.000	0.042	11.06	5	20	33	1.001
	200	1.0000	0.0590	0.6671	1.044	7.026	1.000	0.016	15.56	6	30	55	1.001
	300	1.0000	0.0505	0.7090	1.061	10.259	1.000	0.019	18.94	6	38	66	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0461	0.4363	1.014	2.971	1.000	0.113	8.43	4	16	29	1.001
	200	1.0000	0.0367	0.5426	1.025	4.423	1.000	0.064	11.19	4	22.5	47	1.002
	300	1.0000	0.0313	0.5902	1.034	6.027	1.000	0.054	13.26	4	27.5	53	1.002

Notes: See notes to Table 1.

Table 228: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0946	0.6459	1.015	4.657	1.000	0.008	13.08	6	22	36	1.011
	200	1.0000	0.0756	0.7477	1.026	7.016	1.000	0.001	18.81	8	32	63	1.007
	300	1.0000	0.0677	0.7964	1.039	10.293	1.000	0.001	24.05	10	43	74	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0771	0.5911	1.012	3.865	1.000	0.019	11.40	5	19	34	1.004
	200	1.0000	0.0614	0.7010	1.021	5.646	1.000	0.003	16.03	7	28	56	1.002
	300	1.0000	0.0554	0.7564	1.030	8.036	1.000	0.003	20.39	8	37	69	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0489	0.4694	1.007	2.747	1.000	0.070	8.70	4	15	27	1.000
	200	1.0000	0.0387	0.5825	1.012	3.787	1.000	0.027	11.58	5	21	45	1.001
	300	1.0000	0.0350	0.6483	1.018	5.093	1.000	0.015	14.36	6	28	55	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0945	0.6456	1.015	4.582	1.000	0.008	13.07	6	22	36	1.002
	200	1.0000	0.0755	0.7476	1.026	6.973	1.000	0.001	18.80	8	32	63	1.001
	300	1.0000	0.0677	0.7963	1.039	10.270	1.000	0.001	24.05	10	43	74	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0771	0.5909	1.012	3.834	1.000	0.019	11.40	5	19	34	1.000
	200	1.0000	0.0614	0.7010	1.021	5.629	1.000	0.003	16.03	7	28	56	1.000
	300	1.0000	0.0554	0.7564	1.030	8.030	1.000	0.003	20.39	8	37	69	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0489	0.4694	1.007	2.747	1.000	0.070	8.70	4	15	27	1.000
	200	1.0000	0.0387	0.5824	1.012	3.780	1.000	0.027	11.58	5	21	45	1.000
	300	1.0000	0.0350	0.6482	1.018	5.085	1.000	0.015	14.35	6	28	55	1.000

Notes: See notes to Table 1.

Table 229: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8859	0.0456	0.3853	1.137	6.251	0.612	0.142	7.92	3	20	38	1.069
	200	0.8613	0.0344	0.4552	1.234	14.355	0.553	0.106	10.20	3	29	65	1.054
	300	0.8379	0.0286	0.4735	1.383	40.229	0.491	0.085	11.82	2	37	91	1.051
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8624	0.0350	0.3271	1.118	5.175	0.554	0.163	6.81	2	17	31	1.060
	200	0.8349	0.0263	0.3928	1.188	9.537	0.500	0.126	8.50	2	23	58	1.055
	300	0.8114	0.0220	0.4088	1.284	23.278	0.437	0.093	9.76	2	32	88	1.045
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7918	0.0193	0.2198	1.101	3.712	0.408	0.170	5.02	2	12	25	1.046
	200	0.7620	0.0143	0.2666	1.140	5.654	0.351	0.120	5.85	2	17	49	1.038
	300	0.7408	0.0122	0.2807	1.188	13.887	0.311	0.101	6.56	1	22	73	1.038
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8786	0.0452	0.3814	1.133	6.089	0.592	0.139	7.85	3	20	38	1.022
	200	0.8553	0.0343	0.4513	1.228	13.109	0.538	0.101	10.13	3	29	64	1.012
	300	0.8331	0.0285	0.4707	1.372	38.621	0.479	0.084	11.76	2	37	91	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8556	0.0347	0.3246	1.116	5.027	0.539	0.158	6.75	2	17	31	1.022
	200	0.8283	0.0262	0.3883	1.186	9.458	0.485	0.119	8.44	2	23	58	1.013
	300	0.8063	0.0219	0.4062	1.282	22.716	0.425	0.091	9.71	2	32	88	1.013
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7865	0.0192	0.2186	1.102	3.701	0.397	0.164	4.99	2	12	25	1.023
	200	0.7573	0.0142	0.2630	1.140	5.625	0.343	0.117	5.81	1	17	49	1.010
	300	0.7349	0.0121	0.2784	1.188	13.874	0.301	0.098	6.52	1	22	73	1.007

Notes: See notes to Table 1.

Table 230: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0559	0.4849	1.019	3.717	1.000	0.073	9.37	4	18	29	1.008
	200	0.9996	0.0439	0.5805	1.032	5.605	0.999	0.048	12.60	5	26	46	1.007
	300	0.9993	0.0380	0.6315	1.045	7.283	0.997	0.036	15.24	5	33	64	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0431	0.4146	1.015	2.919	0.999	0.128	8.14	4	15	27	1.007
	200	0.9994	0.0338	0.5110	1.026	4.490	0.998	0.084	10.63	4	22	42	1.008
	300	0.9989	0.0296	0.5645	1.034	5.789	0.996	0.069	12.77	4	29	54	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0242	0.2813	1.008	2.081	0.997	0.289	6.32	4	12	22	1.007
	200	0.9985	0.0192	0.3696	1.015	2.984	0.994	0.198	7.76	4	16	33	1.006
	300	0.9980	0.0168	0.4169	1.019	3.644	0.992	0.182	8.96	4	20	43	1.008
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0558	0.4847	1.019	3.582	0.999	0.073	9.36	4	17.5	29	1.001
	200	0.9996	0.0439	0.5804	1.032	5.539	0.999	0.048	12.60	5	26	46	1.002
	300	0.9990	0.0380	0.6314	1.044	7.287	0.996	0.036	15.24	5	33	64	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0431	0.4145	1.015	2.929	0.997	0.128	8.13	4	15	27	1.002
	200	0.9993	0.0338	0.5109	1.025	4.443	0.997	0.084	10.63	4	22	42	1.004
	300	0.9985	0.0296	0.5645	1.034	5.793	0.994	0.069	12.77	4	29	54	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9989	0.0242	0.2813	1.008	2.104	0.996	0.289	6.31	4	12	22	1.005
	200	0.9984	0.0192	0.3696	1.015	2.995	0.994	0.198	7.76	4	16	33	1.005
	300	0.9973	0.0168	0.4170	1.019	3.677	0.989	0.182	8.96	4	20	43	1.005

Notes: See notes to Table 1.

Table 231: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0596	0.5194	1.011	3.283	1.000	0.039	9.72	5	17	28	1.003
	200	1.0000	0.0463	0.6239	1.016	4.752	1.000	0.020	13.08	5	24.5	39	1.002
	300	1.0000	0.0393	0.6778	1.022	5.872	1.000	0.008	15.64	6	29.5	51	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0463	0.4516	1.009	2.795	1.000	0.079	8.44	4	15	27	1.001
	200	1.0000	0.0362	0.5593	1.013	3.889	1.000	0.036	11.09	5	21	35	1.002
	300	1.0000	0.0305	0.6134	1.017	4.680	1.000	0.023	13.02	5	25	47	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0262	0.3110	1.005	2.082	1.000	0.220	6.52	4	11	23	1.001
	200	1.0000	0.0207	0.4131	1.008	2.664	1.000	0.124	8.05	4	15	26	1.001
	300	1.0000	0.0171	0.4613	1.010	3.097	1.000	0.096	9.05	4	18	34	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0596	0.5193	1.011	3.265	1.000	0.039	9.72	5	17	28	1.000
	200	1.0000	0.0463	0.6239	1.016	4.732	1.000	0.020	13.07	5	24.5	39	1.001
	300	1.0000	0.0393	0.6777	1.022	5.857	1.000	0.008	15.64	6	29.5	51	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0463	0.4515	1.009	2.788	1.000	0.079	8.44	4	15	27	1.000
	200	1.0000	0.0362	0.5593	1.013	3.874	1.000	0.036	11.09	5	21	35	1.001
	300	1.0000	0.0305	0.6133	1.017	4.656	1.000	0.023	13.02	5	25	47	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0262	0.3110	1.005	2.074	1.000	0.220	6.52	4	11	23	1.000
	200	1.0000	0.0207	0.4131	1.008	2.662	1.000	0.124	8.05	4	15	26	1.000
	300	1.0000	0.0171	0.4613	1.010	3.097	1.000	0.096	9.05	4	18	34	1.000

Notes: See notes to Table 1.

Table 232: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6214	0.0211	0.2598	1.092	3.463	0.198	0.061	4.51	1	13	30	1.027
	200	0.5735	0.0143	0.3069	1.119	6.520	0.146	0.032	5.10	0	15	53	1.019
	300	0.5559	0.0119	0.3293	1.155	8.607	0.154	0.034	5.74	0	21	64	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5658	0.0149	0.2103	1.087	2.912	0.151	0.056	3.70	0	10	25	1.020
	200	0.5194	0.0101	0.2462	1.106	4.993	0.113	0.034	4.07	0	12	44	1.017
	300	0.4999	0.0085	0.2712	1.131	5.788	0.114	0.030	4.52	0	16	58	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4499	0.0068	0.1227	1.093	2.672	0.082	0.039	2.45	0	7	19	1.013
	200	0.4124	0.0047	0.1492	1.104	3.586	0.052	0.018	2.58	0	8	36	1.010
	300	0.3908	0.0039	0.1630	1.118	3.593	0.058	0.017	2.72	0	10	43	1.007
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6195	0.0209	0.2576	1.090	3.378	0.196	0.062	4.49	1	13	30	1.009
	200	0.5721	0.0143	0.3040	1.116	6.402	0.145	0.032	5.08	0	15	53	1.001
	300	0.5554	0.0118	0.3265	1.153	8.577	0.154	0.034	5.73	0	21	64	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5644	0.0148	0.2086	1.087	2.863	0.150	0.056	3.68	0	10	25	1.008
	200	0.5189	0.0101	0.2428	1.103	4.816	0.113	0.034	4.05	0	12	44	1.002
	300	0.4991	0.0085	0.2697	1.131	5.761	0.114	0.030	4.51	0	16	58	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4486	0.0067	0.1210	1.092	2.639	0.081	0.039	2.44	0	7	19	1.002
	200	0.4111	0.0047	0.1478	1.104	3.560	0.050	0.018	2.57	0	8	36	1.002
	300	0.3904	0.0039	0.1613	1.117	3.560	0.057	0.016	2.71	0	10	43	1.002

Notes: See notes to Table 1.

Table 233: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9898	0.0268	0.3020	1.013	2.520	0.960	0.249	6.53	4	12	21	1.007
	200	0.9853	0.0188	0.3676	1.018	3.108	0.944	0.198	7.62	4	15	35	1.009
	300	0.9783	0.0157	0.4088	1.023	3.870	0.916	0.154	8.56	4	18	39	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9845	0.0192	0.2366	1.011	2.257	0.940	0.336	5.78	4	11	18	1.006
	200	0.9785	0.0135	0.2974	1.015	2.738	0.920	0.262	6.57	4	13	30	1.005
	300	0.9710	0.0114	0.3360	1.019	3.298	0.891	0.225	7.26	4	15	36	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9678	0.0094	0.1359	1.010	2.139	0.877	0.495	4.78	3	8	15	1.007
	200	0.9578	0.0064	0.1734	1.012	2.420	0.846	0.409	5.09	3	9	23	1.005
	300	0.9491	0.0055	0.2036	1.015	2.749	0.819	0.358	5.43	3	10	28	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9896	0.0267	0.3015	1.013	2.481	0.960	0.250	6.52	4	12	21	1.001
	200	0.9850	0.0187	0.3670	1.017	3.059	0.943	0.199	7.61	4	15	35	1.002
	300	0.9779	0.0157	0.4085	1.022	3.844	0.914	0.154	8.56	4	18	39	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9843	0.0191	0.2363	1.011	2.245	0.939	0.336	5.77	4	11	18	1.003
	200	0.9781	0.0135	0.2972	1.015	2.712	0.918	0.262	6.56	4	13	30	1.001
	300	0.9703	0.0114	0.3357	1.019	3.286	0.888	0.224	7.26	4	15	36	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9668	0.0094	0.1356	1.010	2.145	0.874	0.494	4.77	3	8	15	1.002
	200	0.9574	0.0064	0.1732	1.012	2.417	0.844	0.410	5.09	3	9	23	1.002
	300	0.9488	0.0055	0.2035	1.015	2.741	0.818	0.358	5.42	3	10	28	1.002

Notes: See notes to Table 1.

Table 234: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0272	0.3209	1.007	2.219	0.999	0.202	6.61	4	11	20	1.005
	200	0.9998	0.0195	0.4003	1.010	2.931	0.999	0.133	7.82	4	14	31	1.004
	300	0.9999	0.0158	0.4416	1.011	3.203	1.000	0.108	8.68	4	17	34	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0195	0.2524	1.006	1.950	0.999	0.305	5.87	4	10	18	1.003
	200	0.9996	0.0138	0.3204	1.007	2.510	0.999	0.224	6.71	4	12	24	1.001
	300	0.9996	0.0112	0.3578	1.008	2.690	0.999	0.192	7.33	4	14	29	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0091	0.1371	1.003	1.579	0.996	0.540	4.87	4	7	13	1.001
	200	0.9994	0.0066	0.1838	1.004	1.941	0.998	0.445	5.29	4	9	17	1.001
	300	0.9994	0.0052	0.2066	1.005	1.959	0.998	0.413	5.54	4	9.5	18	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0271	0.3205	1.007	2.189	0.999	0.202	6.60	4	11	20	1.001
	200	0.9996	0.0195	0.4001	1.010	2.897	0.999	0.133	7.81	4	14	31	1.000
	300	0.9998	0.0158	0.4414	1.011	3.184	0.999	0.108	8.68	4	17	34	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0195	0.2521	1.005	1.939	0.999	0.305	5.87	4	10	18	1.001
	200	0.9996	0.0138	0.3203	1.007	2.503	0.999	0.224	6.71	4	12	24	1.000
	300	0.9996	0.0112	0.3577	1.008	2.674	0.999	0.192	7.33	4	14	29	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9990	0.0091	0.1370	1.003	1.576	0.996	0.541	4.87	4	7	13	1.000
	200	0.9994	0.0066	0.1837	1.004	1.934	0.998	0.445	5.29	4	9	17	1.000
	300	0.9994	0.0052	0.2066	1.005	1.959	0.998	0.413	5.54	4	9.5	18	1.001

Notes: See notes to Table 1.

Table 235: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0041	0.0608	1.011	1.095	1.000	0.787	4.39	4	6	17	1.012
	200	1.0000	0.0027	0.0706	1.014	1.210	1.000	0.776	4.54	4	7	30	1.009
	300	1.0000	0.0021	0.0741	1.016	1.235	1.000	0.777	4.61	4	7	29	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.002005	0.0384	1.007	1.063	1.000	0.861	4.24	4	6	15	1.008
	200	1.0000	0.0017	0.0470	1.010	1.130	1.000	0.845	4.34	4	6	26	1.007
	300	1.0000	0.0013	0.0490	1.009	1.144	1.000	0.846	4.38	4	6	25	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0008	0.0137	1.003	1.022	1.000	0.944	4.08	4	5	11	1.003
	200	1.0000	0.0006	0.0188	1.004	1.040	1.000	0.928	4.12	4	5	19	1.002
	300	1.0000	0.0004	0.0180	1.004	1.025	1.000	0.937	4.13	4	5	18	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0040	0.0588	1.008	1.071	1.000	0.795	4.38	4	6	17	1.002
	200	1.0000	0.0027	0.0688	1.013	1.188	1.000	0.783	4.53	4	7	30	1.001
	300	1.0000	0.0020	0.0728	1.015	1.209	1.000	0.781	4.60	4	7	29	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0024	0.0370	1.006	1.050	1.000	0.867	4.23	4	6	15	1.001
	200	1.0000	0.0017	0.0456	1.009	1.119	1.000	0.850	4.33	4	6	26	1.001
	300	1.0000	0.0013	0.0478	1.009	1.109	1.000	0.851	4.38	4	6	25	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0008	0.0132	1.002	1.019	1.000	0.946	4.07	4	5	11	1.000
	200	1.0000	0.0006	0.0184	1.004	1.035	1.000	0.929	4.12	4	5	19	1.001
	300	1.0000	0.0004	0.0178	1.003	1.022	1.000	0.938	4.13	4	5	18	1.000

Notes: See notes to Table 1.

Table 236: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0046	0.0735	1.002	1.054	1.000	0.728	4.44	4	6	15	1.006
	200	1.0000	0.0027	0.0867	1.003	1.071	1.000	0.691	4.54	4	7	17	1.003
	300	1.0000	0.0019	0.0887	1.003	1.086	1.000	0.688	4.56	4	7	15	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0026	0.0442	1.001	1.036	1.000	0.823	4.25	4	5	12	1.005
	200	1.0000	0.0017	0.0559	1.002	1.044	1.000	0.782	4.33	4	6	14	1.003
	300	1.0000	0.0011	0.0539	1.002	1.048	1.000	0.793	4.32	4	6	12	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0156	1.000	1.011	1.000	0.931	4.08	4	5	9	1.001
	200	1.0000	0.0005	0.0179	1.001	1.018	1.000	0.919	4.10	4	5	10	1.002
	300	1.0000	0.0003	0.0165	1.001	1.014	1.000	0.928	4.09	4	5	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0045	0.0725	1.002	1.050	1.000	0.732	4.44	4	6	15	1.001
	200	1.0000	0.0027	0.0865	1.003	1.065	1.000	0.691	4.54	4	7	17	1.002
	300	1.0000	0.0019	0.0879	1.003	1.078	1.000	0.692	4.55	4	7	15	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0026	0.0433	1.001	1.029	1.000	0.826	4.25	4	5	12	1.000
	200	1.0000	0.0017	0.0556	1.002	1.040	1.000	0.783	4.32	4	6	14	1.002
	300	1.0000	0.0011	0.0536	1.002	1.045	1.000	0.794	4.32	4	6	12	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0155	1.000	1.009	1.000	0.931	4.08	4	5	9	1.000
	200	1.0000	0.0005	0.0175	1.001	1.011	1.000	0.921	4.09	4	5	10	1.000
	300	1.0000	0.0003	0.0161	1.001	1.011	1.000	0.929	4.09	4	5	8	1.000

Notes: See notes to Table 1.

Table 237: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0049	0.0809	1.002	1.065	1.000	0.688	4.47	4	6	10	1.009
	200	1.0000	0.0028	0.0909	1.002	1.080	1.000	0.664	4.54	4	7	11	1.007
	300	1.0000	0.0020	0.0961	1.002	1.078	1.000	0.655	4.60	4	7	16	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0029	0.0494	1.001	1.038	1.000	0.800	4.28	4	6	10	1.004
	200	1.0000	0.0016	0.0566	1.001	1.048	1.000	0.773	4.32	4	6	8	1.003
	300	1.0000	0.0012	0.0596	1.001	1.046	1.000	0.766	4.35	4	6	14	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0154	1.000	1.011	1.000	0.934	4.08	4	5	8	1.001
	200	1.0000	0.0005	0.0186	1.000	1.019	1.000	0.917	4.10	4	5	8	1.001
	300	1.0000	0.0004	0.0212	1.001	1.022	1.000	0.906	4.11	4	5	11	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0048	0.0795	1.001	1.055	1.000	0.694	4.46	4	6	10	1.001
	200	1.0000	0.0027	0.0899	1.002	1.070	1.000	0.667	4.54	4	7	11	1.001
	300	1.0000	0.0020	0.0952	1.002	1.068	1.000	0.658	4.59	4	7	16	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0029	0.0488	1.001	1.035	1.000	0.803	4.28	4	6	10	1.001
	200	1.0000	0.0016	0.0562	1.001	1.044	1.000	0.775	4.32	4	6	8	1.000
	300	1.0000	0.0012	0.0591	1.001	1.042	1.000	0.768	4.34	4	6	14	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0153	1.000	1.010	1.000	0.934	4.08	4	5	8	1.001
	200	1.0000	0.0005	0.0185	1.000	1.019	1.000	0.918	4.10	4	5	8	1.000
	300	1.0000	0.0004	0.0209	1.000	1.020	1.000	0.907	4.11	4	5	11	1.000

Notes: See notes to Table 1.

Table 238: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0028	0.0441	1.008	1.042	1.000	0.836	4.27	4	6	12	1.009
	200	1.0000	0.0019	0.0536	1.012	1.085	1.000	0.821	4.37	4	6	28	1.007
	300	1.0000	0.0013	0.0539	1.012	1.097	1.000	0.826	4.39	4	6	20	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0259	1.006	1.015	1.000	0.897	4.15	4	5	12	1.006
	200	1.0000	0.0011	0.0319	1.008	1.057	1.000	0.886	4.21	4	5	25	1.004
	300	1.0000	0.0008	0.0350	1.008	1.051	1.000	0.883	4.24	4	5	17	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0004	0.0072	1.002	1.000	1.000	0.970	4.04	4	4	8	1.002
	200	0.9995	0.0003	0.0093	1.002	1.005	0.998	0.962	4.06	4	4	12	1.001
	300	0.9999	0.0002	0.0117	1.004	1.009	1.000	0.952	4.07	4	4	12	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0027	0.0426	1.007	1.018	1.000	0.842	4.26	4	6	12	1.002
	200	1.0000	0.0019	0.0525	1.010	1.060	1.000	0.826	4.37	4	6	28	1.000
	300	1.0000	0.0013	0.0527	1.011	1.071	1.000	0.831	4.38	4	6	20	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0248	1.005	1.007	1.000	0.902	4.14	4	5	12	1.001
	200	1.0000	0.0011	0.0312	1.007	1.042	1.000	0.889	4.21	4	5	25	1.000
	300	1.0000	0.0008	0.0343	1.008	1.036	1.000	0.885	4.23	4	5	17	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0004	0.0068	1.002	0.999	1.000	0.971	4.04	4	4	8	1.001
	200	0.9995	0.0003	0.0092	1.002	1.004	0.998	0.962	4.05	4	4	12	1.000
	300	0.9999	0.0002	0.0114	1.003	1.003	1.000	0.954	4.07	4	4	12	1.001

Notes: See notes to Table 1.

Table 239: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0034	0.0567	1.003	1.072	1.000	0.778	4.33	4	6	10	1.006
	200	1.0000	0.0018	0.0588	1.003	1.075	1.000	0.771	4.35	4	6	11	1.007
	300	1.0000	0.0014	0.0669	1.004	1.059	1.000	0.750	4.40	4	6	16	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0019	0.0334	1.002	1.041	1.000	0.860	4.18	4	5	9	1.005
	200	1.0000	0.0010	0.0356	1.002	1.050	1.000	0.856	4.20	4	5	9	1.007
	300	1.0000	0.0008	0.0393	1.002	1.025	1.000	0.841	4.23	4	5	15	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0083	1.000	1.010	1.000	0.963	4.04	4	4	7	1.001
	200	1.0000	0.0003	0.0091	1.000	1.016	1.000	0.961	4.05	4	4	8	1.001
	300	1.0000	0.0002	0.0106	1.001	1.013	1.000	0.954	4.06	4	4	10	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0033	0.0557	1.003	1.060	1.000	0.783	4.32	4	6	10	1.001
	200	1.0000	0.0017	0.0579	1.003	1.063	1.000	0.775	4.34	4	6	11	1.001
	300	1.0000	0.0013	0.0659	1.003	1.050	1.000	0.755	4.40	4	6	16	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0019	0.0326	1.002	1.031	1.000	0.864	4.18	4	5	9	1.001
	200	1.0000	0.0010	0.0346	1.002	1.038	1.000	0.861	4.20	4	5	9	1.001
	300	1.0000	0.0008	0.0388	1.002	1.021	1.000	0.843	4.22	4	5	15	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0082	1.000	1.006	1.000	0.963	4.04	4	4	7	1.000
	200	1.0000	0.0002	0.0089	1.000	1.014	1.000	0.962	4.05	4	4	8	1.000
	300	1.0000	0.0002	0.0104	1.001	1.011	1.000	0.955	4.06	4	4	10	1.000

Notes: See notes to Table 1.

Table 240: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0032	0.0555	1.001	1.057	1.000	0.774	4.31	4	6	8	1.004
	200	1.0000	0.0019	0.0655	1.002	1.067	1.000	0.743	4.38	4	6	10	1.002
	300	1.0000	0.0015	0.0727	1.002	1.090	1.000	0.731	4.44	4	6	11	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0018	0.0321	1.001	1.034	1.000	0.858	4.17	4	5	8	1.003
	200	1.0000	0.0011	0.0381	1.001	1.040	1.000	0.841	4.21	4	5	9	1.003
	300	1.0000	0.0009	0.0450	1.001	1.059	1.000	0.823	4.26	4	6	9	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0091	1.000	1.012	1.000	0.958	4.05	4	4	7	1.001
	200	1.0000	0.0003	0.0124	1.000	1.018	1.000	0.941	4.06	4	5	7	1.001
	300	1.0000	0.0003	0.0162	1.001	1.025	1.000	0.928	4.09	4	5	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0032	0.0549	1.001	1.051	1.000	0.776	4.31	4	6	8	1.000
	200	1.0000	0.0019	0.0652	1.002	1.065	1.000	0.744	4.38	4	6	10	1.001
	300	1.0000	0.0015	0.0720	1.002	1.082	1.000	0.734	4.43	4	6	11	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0018	0.0316	1.001	1.032	1.000	0.861	4.17	4	5	8	1.000
	200	1.0000	0.0011	0.0376	1.001	1.036	1.000	0.843	4.21	4	5	9	1.000
	300	1.0000	0.0009	0.0447	1.001	1.046	1.000	0.824	4.26	4	6	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0090	1.000	1.011	1.000	0.959	4.05	4	4	7	1.000
	200	1.0000	0.0003	0.0123	1.000	1.017	1.000	0.942	4.06	4	5	7	1.001
	300	1.0000	0.0003	0.0161	1.001	1.017	1.000	0.929	4.09	4	5	7	1.000

Notes: See notes to Table 1.

Table 241: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9876	0.0024	0.0364	1.009	1.091	0.966	0.831	4.18	4	5	15	1.010
	200	0.9828	0.0013	0.0401	1.011	1.032	0.956	0.825	4.18	4	5	14	1.006
	300	0.9813	0.0009	0.0410	1.010	1.043	0.946	0.815	4.19	4	6	23	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9821	0.0013	0.0211	1.006	1.042	0.955	0.877	4.06	4	5	14	1.005
	200	0.9758	0.0008	0.0242	1.007	1.006	0.941	0.859	4.05	3	5	13	1.003
	300	0.9714	0.0005	0.0260	1.007	0.997	0.926	0.838	4.04	3	5	20	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9583	0.0004	0.0067	1.002	0.968	0.899	0.876	3.87	3	4	11	1.003
	200	0.9479	0.0002	0.0077	1.003	0.941	0.881	0.855	3.83	2	4	8	1.000
	300	0.9331	0.0002	0.0084	1.002	0.927	0.857	0.828	3.78	2	4	11	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9876	0.0023	0.0347	1.007	1.035	0.966	0.839	4.17	4	5	15	1.002
	200	0.9828	0.0013	0.0389	1.009	1.011	0.956	0.829	4.18	4	5	14	1.000
	300	0.9813	0.0009	0.0398	1.009	1.007	0.946	0.820	4.19	4	6	23	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9821	0.0013	0.0202	1.005	1.015	0.955	0.881	4.05	4	5	14	1.001
	200	0.9758	0.0007	0.0236	1.006	0.994	0.941	0.862	4.05	3	5	13	1.000
	300	0.9714	0.0005	0.0249	1.006	0.981	0.926	0.844	4.04	3	5	20	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9583	0.0004	0.0062	1.001	0.947	0.899	0.879	3.87	3	4	11	1.000
	200	0.9479	0.0002	0.0077	1.003	0.941	0.881	0.855	3.83	2	4	8	1.000
	300	0.9331	0.0002	0.0080	1.002	0.925	0.857	0.829	3.78	2	4	11	1.000

Notes: See notes to Table 1.

Table 242: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0024	0.0409	1.003	1.068	1.000	0.838	4.23	4	5	10	1.007
	200	1.0000	0.0013	0.0439	1.003	1.066	1.000	0.826	4.26	4	5	11	1.005
	300	1.0000	0.0009	0.0462	1.003	1.058	1.000	0.817	4.27	4	6	12	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0014	0.0250	1.002	1.046	1.000	0.895	4.14	4	5	8	1.005
	200	1.0000	0.0007	0.0238	1.002	1.030	1.000	0.901	4.14	4	5	11	1.002
	300	1.0000	0.0005	0.0264	1.002	1.039	1.000	0.889	4.15	4	5	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0004	0.0069	1.001	1.014	1.000	0.968	4.04	4	4	7	1.002
	200	1.0000	0.0002	0.0065	1.001	1.012	1.000	0.972	4.04	4	4	8	1.002
	300	1.0000	0.0001	0.0073	1.001	1.015	1.000	0.967	4.04	4	4	7	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0024	0.0398	1.003	1.046	1.000	0.843	4.23	4	5	10	1.001
	200	1.0000	0.0013	0.0431	1.003	1.050	1.000	0.829	4.25	4	5	11	1.000
	300	1.0000	0.0009	0.0457	1.003	1.055	1.000	0.819	4.26	4	6	12	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0014	0.0244	1.002	1.028	1.000	0.898	4.13	4	5	8	1.001
	200	1.0000	0.0007	0.0236	1.002	1.027	1.000	0.902	4.13	4	5	11	1.000
	300	1.0000	0.0005	0.0258	1.002	1.035	1.000	0.892	4.14	4	5	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0067	1.000	1.013	1.000	0.969	4.04	4	4	7	1.001
	200	1.0000	0.0002	0.0062	1.001	1.007	1.000	0.974	4.03	4	4	8	1.000
	300	1.0000	0.0001	0.0070	1.001	1.012	1.000	0.968	4.04	4	4	7	1.000

Notes: See notes to Table 1.

Table 243: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0021	0.0380	1.002	1.056	1.000	0.832	4.20	4	5	8	1.004
	200	1.0000	0.0012	0.0423	1.001	1.079	1.000	0.824	4.23	4	5	11	1.003
	300	1.0000	0.0008	0.0435	1.002	1.061	1.000	0.818	4.24	4	5	10	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0011	0.0204	1.001	1.034	1.000	0.909	4.11	4	5	7	1.003
	200	1.0000	0.0007	0.0250	1.001	1.052	1.000	0.888	4.13	4	5	10	1.003
	300	1.0000	0.0005	0.0252	1.001	1.037	1.000	0.889	4.14	4	5	8	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0066	1.000	1.015	1.000	0.969	4.03	4	4	6	1.001
	200	1.0000	0.0002	0.0065	1.000	1.019	1.000	0.969	4.03	4	4	6	1.002
	300	1.0000	0.0001	0.0055	1.000	1.007	1.000	0.974	4.03	4	4	6	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0021	0.0374	1.002	1.051	1.000	0.834	4.20	4	5	8	1.001
	200	1.0000	0.0012	0.0417	1.001	1.067	1.000	0.826	4.23	4	5	11	1.000
	300	1.0000	0.0008	0.0425	1.002	1.052	1.000	0.822	4.23	4	5	10	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0011	0.0199	1.001	1.031	1.000	0.911	4.11	4	5	7	1.001
	200	1.0000	0.0007	0.0247	1.001	1.045	1.000	0.890	4.13	4	5	10	1.001
	300	1.0000	0.0004	0.0247	1.001	1.031	1.000	0.891	4.13	4	5	8	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0064	1.000	1.014	1.000	0.970	4.03	4	4	6	1.000
	200	1.0000	0.0002	0.0063	1.000	1.013	1.000	0.970	4.03	4	4	6	1.001
	300	1.0000	0.0001	0.0055	1.000	1.007	1.000	0.974	4.03	4	4	6	1.000

Notes: See notes to Table 1.

5.2 Findings for designs with non-zero correlations between signal and pseudo-signal variables

Table 244: MC findings for DGPII(a)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0386	0.4335	1.066	3.362	0.999	0.000	0.967	0.491	7.70	6	14	32	1.013
	200	0.9999	0.0230	0.4546	1.093	5.909	1.000	0.000	0.957	0.466	8.52	6	18	52	1.009
	300	0.9993	0.0176	0.4674	1.124	6.906	0.997	0.001	0.945	0.444	9.21	6	22	56	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0330	0.4058	1.051	3.120	0.998	0.000	0.957	0.576	7.16	6	12	29	1.009
	200	0.9998	0.0191	0.4233	1.071	4.567	0.999	0.001	0.947	0.548	7.74	6	15	47	1.005
	300	0.9991	0.0143	0.4335	1.090	5.317	0.997	0.001	0.930	0.517	8.23	6	18	52	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0259	0.3640	1.035	2.402	0.997	0.001	0.922	0.699	6.48	5	9	25	1.003
	200	0.9993	0.0141	0.3738	1.046	2.708	0.997	0.003	0.909	0.669	6.75	5	11	35	1.001
	300	0.9990	0.0099	0.3778	1.052	3.163	0.996	0.005	0.882	0.634	6.94	5	12	36	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0384	0.4325	1.063	3.248	0.999	0.000	0.967	0.499	7.69	6	14	32	1.003
	200	0.9999	0.0230	0.4540	1.092	5.819	1.000	0.000	0.957	0.469	8.51	6	18	52	1.000
	300	0.9993	0.0176	0.4668	1.121	6.712	0.997	0.001	0.945	0.447	9.20	6	22	56	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0329	0.4052	1.049	3.023	0.998	0.000	0.957	0.580	7.16	6	12	29	1.002
	200	0.9998	0.0191	0.4230	1.070	4.484	0.999	0.001	0.947	0.550	7.74	6	15	47	1.000
	300	0.9991	0.0143	0.4330	1.087	5.234	0.997	0.001	0.930	0.519	8.22	6	18	52	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0258	0.3638	1.034	2.362	0.997	0.001	0.922	0.701	6.48	5	9	25	1.001
	200	0.9993	0.0141	0.3738	1.046	2.677	0.997	0.003	0.909	0.669	6.75	5	11	35	1.000
	300	0.9990	0.0099	0.3776	1.052	3.160	0.996	0.005	0.882	0.636	6.94	5	12	36	1.000

Notes: See notes to Table 46.

Table 245: MC findings for DGPII(a)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0443	0.4794	1.013	2.654	1.000	0.000	1.000	0.294	8.26	6	13	23	1.006
	200	1.0000	0.0265	0.5120	1.017	3.042	1.000	0.000	1.000	0.256	9.20	6	17	31	1.004
	300	1.0000	0.0206	0.5374	1.021	3.481	1.000	0.000	1.000	0.215	10.09	6	20	39	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0375	0.4442	1.011	2.471	1.000	0.000	1.000	0.402	7.60	6	12	21	1.005
	200	1.0000	0.0216	0.4709	1.013	2.736	1.000	0.000	1.000	0.351	8.23	6	14	28	1.002
	300	1.0000	0.0166	0.4942	1.016	3.011	1.000	0.000	1.000	0.303	8.91	6	17	35	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0285	0.3907	1.008	2.207	1.000	0.000	1.000	0.615	6.74	6	9	16	1.002
	200	1.0000	0.0155	0.4070	1.009	2.325	1.000	0.000	1.000	0.570	7.03	6	11	21	1.001
	300	1.0000	0.0113	0.4219	1.010	2.417	1.000	0.000	1.000	0.531	7.35	6	12	25	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0443	0.4791	1.013	2.624	1.000	0.000	1.000	0.295	8.25	6	13	23	1.002
	200	1.0000	0.0265	0.5117	1.017	3.027	1.000	0.000	1.000	0.258	9.19	6	17	31	1.000
	300	1.0000	0.0206	0.5372	1.021	3.446	1.000	0.000	1.000	0.216	10.09	6	20	39	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0375	0.4439	1.011	2.444	1.000	0.000	1.000	0.402	7.60	6	12	21	1.001
	200	1.0000	0.0216	0.4708	1.013	2.713	1.000	0.000	1.000	0.351	8.23	6	14	28	1.000
	300	1.0000	0.0166	0.4941	1.016	2.971	1.000	0.000	1.000	0.304	8.91	6	17	35	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0285	0.3906	1.008	2.204	1.000	0.000	1.000	0.616	6.74	6	9	16	1.000
	200	1.0000	0.0155	0.4069	1.009	2.324	1.000	0.000	1.000	0.571	7.03	6	11	21	1.000
	300	1.0000	0.0113	0.4218	1.010	2.411	1.000	0.000	1.000	0.531	7.35	6	12	25	1.000

Notes: See notes to Table 46.

Table 246: MC findings for DGPII(a)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	$\text{rRMSE}_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0453	0.4912	1.008	2.582	1.000	0.000	1.000	0.213	8.35	6	13	21	1.009
	200	1.0000	0.0273	0.5320	1.009	2.847	1.000	0.000	1.000	0.159	9.35	6	15.5	26	1.004
	300	1.0000	0.0213	0.5609	1.011	3.090	1.000	0.000	1.000	0.132	10.30	6	19	38	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0385	0.4560	1.006	2.415	1.000	0.000	1.000	0.298	7.69	6	11	20	1.006
	200	1.0000	0.0225	0.4889	1.007	2.590	1.000	0.000	1.000	0.256	8.41	6	14	22	1.003
	300	1.0000	0.0173	0.5148	1.009	2.750	1.000	0.000	1.000	0.209	9.11	6	16	32	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0291	0.3976	1.004	2.174	1.000	0.000	1.000	0.545	6.80	6	9	17	1.003
	200	1.0000	0.0156	0.4144	1.005	2.235	1.000	0.000	1.000	0.485	7.07	6	10	17	1.001
	300	1.0000	0.0118	0.4356	1.006	2.351	1.000	0.000	1.000	0.424	7.48	6	12	25	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0452	0.4908	1.008	2.536	1.000	0.000	1.000	0.214	8.34	6	13	21	1.001
	200	1.0000	0.0273	0.5318	1.009	2.824	1.000	0.000	1.000	0.160	9.35	6	15.5	26	1.000
	300	1.0000	0.0213	0.5608	1.011	3.065	1.000	0.000	1.000	0.132	10.30	6	19	38	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0384	0.4557	1.006	2.376	1.000	0.000	1.000	0.298	7.69	6	11	20	1.001
	200	1.0000	0.0225	0.4887	1.007	2.582	1.000	0.000	1.000	0.258	8.41	6	14	22	1.000
	300	1.0000	0.0172	0.5147	1.009	2.741	1.000	0.000	1.000	0.209	9.10	6	16	32	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0291	0.3974	1.004	2.152	1.000	0.000	1.000	0.547	6.79	6	9	17	1.000
	200	1.0000	0.0156	0.4143	1.005	2.230	1.000	0.000	1.000	0.486	7.06	6	10	17	1.000
	300	1.0000	0.0118	0.4355	1.006	2.344	1.000	0.000	1.000	0.424	7.48	6	12	25	1.001

Notes: See notes to Table 46.

Table 247: MC findings for DGPII(a)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9966	0.0301	0.3865	1.045	2.489	0.987	0.003	0.859	0.544	6.87	5	11	26	1.010
	200	0.9956	0.0169	0.3991	1.063	3.250	0.983	0.004	0.837	0.510	7.29	5	14	44	1.007
	300	0.9931	0.0120	0.4018	1.077	4.077	0.974	0.011	0.801	0.471	7.51	5	15	42	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9944	0.0259	0.3589	1.036	2.213	0.979	0.007	0.816	0.589	6.46	5	9	24	1.005
	200	0.9934	0.0142	0.3693	1.050	2.766	0.975	0.008	0.787	0.541	6.75	5	11	37	1.004
	300	0.9901	0.0098	0.3678	1.058	3.357	0.963	0.019	0.751	0.505	6.85	5	12	41	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9880	0.0203	0.3151	1.025	1.987	0.956	0.024	0.715	0.616	5.90	5	7	18	1.002
	200	0.9844	0.0105	0.3175	1.033	2.234	0.941	0.023	0.660	0.543	5.99	4	8	25	1.002
	300	0.9804	0.0070	0.3138	1.035	2.262	0.928	0.032	0.637	0.532	5.98	4	8	31	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9966	0.0300	0.3857	1.044	2.431	0.987	0.003	0.859	0.550	6.86	5	11	26	1.002
	200	0.9955	0.0168	0.3986	1.062	3.225	0.983	0.004	0.837	0.513	7.28	5	14	44	1.001
	300	0.9931	0.0119	0.4011	1.075	4.001	0.974	0.011	0.801	0.475	7.50	5	15	42	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9944	0.0258	0.3587	1.035	2.204	0.979	0.007	0.816	0.590	6.46	5	9	24	1.003
	200	0.9933	0.0141	0.3690	1.049	2.752	0.974	0.008	0.787	0.542	6.74	5	11	37	1.001
	300	0.9901	0.0097	0.3674	1.056	3.292	0.963	0.019	0.751	0.508	6.84	5	12	41	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9880	0.0203	0.3149	1.025	1.985	0.956	0.024	0.715	0.616	5.90	5	7	18	1.001
	200	0.9844	0.0105	0.3174	1.033	2.229	0.941	0.023	0.660	0.544	5.99	4	8	25	1.001
	300	0.9804	0.0070	0.3134	1.034	2.238	0.928	0.032	0.637	0.534	5.98	4	8	31	1.001

Notes: See notes to Table 46.

Table 248: MC findings for DGPII(a)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0343	0.4273	1.011	2.428	1.000	0.000	1.000	0.451	7.29	6	11	21	1.007
	200	1.0000	0.0197	0.4555	1.014	2.649	1.000	0.000	1.000	0.368	7.87	6	13	25	1.004
	300	1.0000	0.0143	0.4675	1.017	2.773	1.000	0.000	0.999	0.361	8.23	6	15	29	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0298	0.3998	1.010	2.284	1.000	0.000	1.000	0.564	6.86	6	10	19	1.004
	200	1.0000	0.0165	0.4204	1.012	2.458	1.000	0.000	1.000	0.491	7.23	6	11	22	1.001
	300	1.0000	0.0118	0.4323	1.014	2.520	1.000	0.000	0.999	0.466	7.50	6	12	25	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0245	0.3626	1.007	2.114	1.000	0.000	0.999	0.774	6.35	6	8	14	1.001
	200	1.0000	0.0127	0.3717	1.008	2.201	1.000	0.000	1.000	0.727	6.49	6	8	16	1.000
	300	1.0000	0.0088	0.3801	1.009	2.231	1.000	0.000	0.999	0.683	6.61	6	9	17	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0342	0.4269	1.011	2.396	1.000	0.000	1.000	0.454	7.29	6	11	21	1.001
	200	1.0000	0.0197	0.4553	1.014	2.628	1.000	0.000	1.000	0.368	7.87	6	13	25	1.000
	300	1.0000	0.0143	0.4671	1.016	2.756	1.000	0.000	0.999	0.364	8.23	6	15	29	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0297	0.3995	1.009	2.265	1.000	0.000	1.000	0.566	6.85	6	10	19	1.000
	200	1.0000	0.0165	0.4203	1.012	2.451	1.000	0.000	1.000	0.491	7.23	6	11	22	1.000
	300	1.0000	0.0118	0.4319	1.013	2.487	1.000	0.000	0.999	0.469	7.49	6	12	25	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0245	0.3626	1.007	2.112	1.000	0.000	0.999	0.775	6.35	6	8	14	1.000
	200	1.0000	0.0127	0.3717	1.008	2.201	1.000	0.000	1.000	0.727	6.49	6	8	16	1.000
	300	1.0000	0.0088	0.3801	1.009	2.228	1.000	0.000	0.999	0.683	6.61	6	9	17	1.000

Notes: See notes to Table 46.

Table 249: MC findings for DGPII(a)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0353	0.4363	1.006	2.266	1.000	0.000	1.000	0.389	7.39	6	10	20	1.005
	200	1.0000	0.0199	0.4641	1.008	2.559	1.000	0.000	1.000	0.303	7.89	6	12	26	1.005
	300	1.0000	0.0149	0.4863	1.009	2.677	1.000	0.000	1.000	0.262	8.42	6	14	26	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0307	0.4073	1.005	2.148	1.000	0.000	1.000	0.507	6.94	6	9	19	1.003
	200	1.0000	0.0166	0.4266	1.006	2.364	1.000	0.000	1.000	0.436	7.26	6	11	23	1.002
	300	1.0000	0.0123	0.4452	1.007	2.473	1.000	0.000	1.000	0.394	7.64	6	12	23	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0249	0.3670	1.004	1.992	1.000	0.000	1.000	0.732	6.39	6	8	14	1.001
	200	1.0000	0.0129	0.3766	1.005	2.160	1.000	0.000	1.000	0.678	6.53	6	8	17	1.000
	300	1.0000	0.0091	0.3863	1.005	2.187	1.000	0.000	1.000	0.645	6.69	6	9	19	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0352	0.4359	1.006	2.254	1.000	0.000	1.000	0.391	7.38	6	10	20	1.001
	200	1.0000	0.0198	0.4638	1.007	2.526	1.000	0.000	1.000	0.304	7.89	6	12	26	1.000
	300	1.0000	0.0149	0.4858	1.009	2.640	1.000	0.000	1.000	0.264	8.41	6	14	26	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0306	0.4071	1.005	2.135	1.000	0.000	1.000	0.508	6.94	6	9	19	1.000
	200	1.0000	0.0166	0.4265	1.006	2.353	1.000	0.000	1.000	0.437	7.26	6	11	23	1.000
	300	1.0000	0.0123	0.4449	1.007	2.455	1.000	0.000	1.000	0.396	7.63	6	12	23	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0249	0.3669	1.004	1.989	1.000	0.000	1.000	0.732	6.39	6	8	14	1.000
	200	1.0000	0.0129	0.3766	1.005	2.160	1.000	0.000	1.000	0.678	6.53	6	8	17	1.000
	300	1.0000	0.0091	0.3862	1.005	2.185	1.000	0.000	1.000	0.645	6.68	6	9	19	1.000

Notes: See notes to Table 46.

Table 250: MC findings for DGPII(a)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9151	0.0209	0.3100	1.035	2.144	0.757	0.038	0.458	0.333	5.67	3	9	23	1.005
	200	0.8943	0.0102	0.3049	1.039	2.269	0.717	0.048	0.393	0.266	5.59	2	9	35	1.006
	300	0.8719	0.0067	0.2997	1.040	2.119	0.649	0.046	0.327	0.226	5.48	2	9	26	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8879	0.0173	0.2758	1.029	2.013	0.698	0.055	0.385	0.304	5.21	2	8	20	1.003
	200	0.8630	0.0083	0.2723	1.030	1.951	0.650	0.060	0.332	0.255	5.08	2	8	28	1.002
	300	0.8349	0.0054	0.2658	1.031	1.812	0.577	0.054	0.271	0.210	4.92	2	8	21	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8135	0.0121	0.2196	1.023	1.696	0.554	0.083	0.251	0.226	4.42	1	6	14	1.001
	200	0.7760	0.0056	0.2163	1.026	1.505	0.491	0.068	0.205	0.180	4.21	1	6	15	1.000
	300	0.7425	0.0033	0.1983	1.029	1.474	0.431	0.078	0.160	0.141	3.95	1	6	13	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9151	0.0208	0.3092	1.034	2.119	0.757	0.039	0.458	0.335	5.66	3	9	23	1.000
	200	0.8943	0.0102	0.3041	1.038	2.243	0.717	0.048	0.393	0.267	5.58	2	9	35	1.000
	300	0.8719	0.0067	0.2989	1.039	2.103	0.649	0.046	0.327	0.227	5.48	2	9	26	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8879	0.0172	0.2752	1.028	1.977	0.698	0.055	0.385	0.305	5.21	2	8	20	1.000
	200	0.8630	0.0083	0.2720	1.030	1.947	0.650	0.060	0.332	0.255	5.08	2	8	28	1.000
	300	0.8349	0.0053	0.2654	1.031	1.799	0.577	0.054	0.271	0.210	4.92	2	8	21	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8135	0.0121	0.2193	1.022	1.688	0.554	0.083	0.251	0.226	4.41	1	6	14	1.000
	200	0.7760	0.0056	0.2163	1.026	1.505	0.491	0.068	0.205	0.180	4.21	1	6	15	1.000
	300	0.7425	0.0033	0.1977	1.029	1.459	0.431	0.078	0.160	0.141	3.95	1	6	13	1.000

Notes: See notes to Table 46.

Table 251: MC findings for DGPII(a)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0269	0.3798	1.009	2.241	1.000	0.000	0.990	0.654	6.58	6	9	17	1.005
	200	1.0000	0.0145	0.3953	1.011	2.121	1.000	0.000	0.987	0.584	6.84	6	10	19	1.002
	300	1.0000	0.0101	0.4032	1.011	2.382	1.000	0.000	0.984	0.573	7.00	6	10	21	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0246	0.3628	1.008	2.127	1.000	0.001	0.986	0.746	6.36	6	8	14	1.003
	200	1.0000	0.0128	0.3729	1.009	2.019	1.000	0.000	0.980	0.690	6.51	6	9	16	1.001
	300	1.0000	0.0088	0.3787	1.009	2.231	1.000	0.000	0.972	0.662	6.62	6	9	19	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0219	0.3410	1.006	2.038	1.000	0.001	0.970	0.872	6.10	6	7	13	1.001
	200	0.9999	0.0109	0.3432	1.007	1.905	1.000	0.003	0.959	0.840	6.14	6	7	11	1.000
	300	0.9999	0.0073	0.3437	1.007	2.065	1.000	0.002	0.947	0.815	6.15	6	7	12	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0269	0.3794	1.009	2.185	1.000	0.000	0.990	0.657	6.58	6	9	17	1.000
	200	1.0000	0.0145	0.3951	1.011	2.103	1.000	0.000	0.987	0.585	6.83	6	10	19	1.000
	300	1.0000	0.0101	0.4030	1.011	2.370	1.000	0.000	0.984	0.575	6.99	6	10	21	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0246	0.3626	1.008	2.116	1.000	0.001	0.986	0.748	6.36	6	8	14	1.000
	200	1.0000	0.0128	0.3729	1.009	2.018	1.000	0.000	0.980	0.690	6.51	6	9	16	1.000
	300	1.0000	0.0088	0.3786	1.009	2.225	1.000	0.000	0.972	0.663	6.62	6	9	19	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0219	0.3410	1.006	2.038	1.000	0.001	0.970	0.872	6.10	6	7	13	1.001
	200	0.9999	0.0109	0.3432	1.007	1.905	1.000	0.003	0.959	0.840	6.14	6	7	11	1.000
	300	0.9999	0.0073	0.3436	1.007	2.061	1.000	0.002	0.947	0.815	6.15	6	7	12	1.000

Notes: See notes to Table 46.

Table 252: MC findings for DGPII(a)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0279	0.3889	1.005	2.198	1.000	0.000	1.000	0.601	6.68	6	9	13	1.005
	200	1.0000	0.0147	0.4019	1.006	2.227	1.000	0.000	1.000	0.541	6.88	6	9	17	1.003
	300	1.0000	0.0103	0.4110	1.008	2.312	1.000	0.000	1.000	0.504	7.04	6	10	17	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0253	0.3702	1.005	2.086	1.000	0.000	1.000	0.711	6.43	6	8	11	1.003
	200	1.0000	0.0129	0.3773	1.005	2.102	1.000	0.000	1.000	0.671	6.53	6	8	15	1.002
	300	1.0000	0.0089	0.3844	1.006	2.160	1.000	0.000	1.000	0.638	6.64	6	9	16	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0223	0.3457	1.003	1.968	1.000	0.000	1.000	0.891	6.14	6	7	9	1.000
	200	1.0000	0.0111	0.3490	1.004	1.974	1.000	0.000	0.998	0.856	6.18	6	7	10	1.000
	300	1.0000	0.0075	0.3528	1.004	1.988	1.000	0.000	1.000	0.839	6.22	6	7	12	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0278	0.3885	1.005	2.180	1.000	0.000	1.000	0.601	6.67	6	9	13	1.000
	200	1.0000	0.0147	0.4017	1.006	2.206	1.000	0.000	1.000	0.543	6.87	6	9	17	1.000
	300	1.0000	0.0103	0.4108	1.007	2.296	1.000	0.000	1.000	0.505	7.04	6	10	17	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0253	0.3699	1.004	2.076	1.000	0.000	1.000	0.713	6.43	6	8	11	1.000
	200	1.0000	0.0129	0.3772	1.005	2.083	1.000	0.000	1.000	0.672	6.53	6	8	15	1.000
	300	1.0000	0.0089	0.3843	1.006	2.151	1.000	0.000	1.000	0.639	6.64	6	9	16	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0223	0.3457	1.003	1.968	1.000	0.000	1.000	0.891	6.14	6	7	9	1.000
	200	1.0000	0.0111	0.3490	1.004	1.974	1.000	0.000	0.998	0.856	6.18	6	7	10	1.000
	300	1.0000	0.0075	0.3527	1.004	1.986	1.000	0.000	1.000	0.840	6.22	6	7	12	1.000

Notes: See notes to Table 46.

Table 253: MC findings for DGPII(b)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1,\ \delta = 1,\ \delta^* = 1.5$	100	0.9360	0.1806	0.7665	1.551	17.282	0.763	0.006	21.08	6	38	60	1.051
	200	0.9235	0.1593	0.8454	2.520	101.016	0.736	0.000	34.91	8	66	93	1.042
	300	0.9126	0.1712	0.8762	5.405	2678.493	0.704	0.001	54.34	9	98	295	1.495
$p = 0.05,\ \delta = 1,\ \delta^* = 1.5$	100	0.9246	0.1575	0.7360	1.476	14.495	0.731	0.010	18.81	5	35	56	1.044
	200	0.9119	0.1387	0.8204	2.197	53.665	0.702	0.003	30.84	6	61	88	1.032
	300	0.8990	0.1370	0.8555	3.910	523.227	0.667	0.001	44.14	7	84	284	1.203
$p = 0.01,\ \delta = 1,\ \delta^* = 1.5$	100	0.9026	0.1153	0.6589	1.344	9.430	0.665	0.013	14.68	4	29	50	1.032
	200	0.8805	0.1027	0.7605	1.814	30.096	0.620	0.006	23.66	4	51	77	1.024
	300	0.8721	0.0962	0.8005	2.661	125.116	0.606	0.004	31.97	4	70	271	1.050
$p = 0.1,\ \delta = 1,\ \delta^* = 2$	100	0.9318	0.1803	0.7661	1.548	16.948	0.750	0.007	21.03	6	38	60	1.019
	200	0.9216	0.1591	0.8453	2.486	84.144	0.731	0.000	34.87	8	66	92	1.011
	300	0.9109	0.1673	0.8754	5.431	2705.201	0.699	0.002	53.15	9	93	295	1.393
$p = 0.05,\ \delta = 1,\ \delta^* = 2$	100	0.9205	0.1572	0.7355	1.474	14.273	0.718	0.009	18.78	5	35	56	1.016
	200	0.9100	0.1386	0.8201	2.193	52.594	0.696	0.003	30.81	6	61	88	1.012
	300	0.8970	0.1363	0.8549	3.539	221.484	0.664	0.001	43.94	7	84	284	1.166
$p = 0.01,\ \delta = 1,\ \delta^* = 2$	100	0.8985	0.1152	0.6579	1.346	9.426	0.652	0.012	14.66	4	29	50	1.012
	200	0.8778	0.1027	0.7608	1.813	30.028	0.614	0.006	23.64	4	51	77	1.009
	300	0.8703	0.0962	0.8005	2.676	125.693	0.604	0.004	31.96	4	70	288	1.040

Notes: See notes to Table 55.

Table 254: MC findings for DGPII(b)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.2087	0.8162	1.085	8.380	1.000	0.000	24.03	13	36	45	1.010
	200	0.9995	0.1836	0.8881	1.207	20.480	0.998	0.000	39.98	21	60	78	1.009
	300	0.9998	0.1670	0.9155	1.331	34.375	0.999	0.000	53.43	27	81	105	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1831	0.7928	1.072	7.231	1.000	0.001	21.57	11	33	41	1.006
	200	0.9995	0.1619	0.8728	1.170	16.895	0.998	0.000	35.73	18	56	74	1.010
	300	0.9994	0.1471	0.9034	1.276	28.131	0.998	0.000	47.54	23	74.5	100	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.1382	0.7353	1.051	5.237	1.000	0.001	17.27	8	27	37	1.004
	200	0.9994	0.1219	0.8313	1.116	11.471	0.998	0.001	27.88	13	46	65	1.007
	300	0.9993	0.1106	0.8702	1.182	18.098	0.997	0.001	36.74	16	60	83	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.2086	0.8162	1.085	8.308	1.000	0.000	24.03	13	36	45	1.002
	200	0.9990	0.1835	0.8881	1.206	20.439	0.996	0.000	39.97	21	60	78	1.002
	300	0.9998	0.1670	0.9155	1.331	34.156	0.999	0.000	53.42	27	81	105	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.1830	0.7928	1.072	7.200	1.000	0.001	21.57	11	33	41	1.002
	200	0.9989	0.1619	0.8729	1.170	16.817	0.996	0.000	35.72	18	56	74	1.002
	300	0.9994	0.1471	0.9034	1.276	27.947	0.998	0.000	47.54	23	74.5	100	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.1382	0.7353	1.051	5.242	0.999	0.001	17.27	8	27	37	1.004
	200	0.9986	0.1219	0.8315	1.116	11.484	0.995	0.001	27.88	13	46	65	1.003
	300	0.9989	0.1106	0.8702	1.183	18.151	0.996	0.001	36.74	16	60	83	1.004

Notes: See notes to Table 55.

Table 255: MC findings for DGPII(b)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.2174	0.8282	1.040	7.250	1.000	0.000	24.87	15	36	48	1.007
	200	1.0000	0.1877	0.8949	1.087	14.520	1.000	0.000	40.79	25	58	73	1.008
	300	1.0000	0.1726	0.9217	1.142	24.969	1.000	0.000	55.08	31	78	101	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1929	0.8086	1.034	6.364	1.000	0.000	22.52	13	33	46	1.004
	200	1.0000	0.1660	0.8815	1.074	12.248	1.000	0.000	36.53	21	53	70	1.005
	300	1.0000	0.1527	0.9113	1.120	20.858	1.000	0.000	49.19	27	72	96	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1469	0.7584	1.025	4.761	1.000	0.000	18.10	10	27.5	40	1.001
	200	1.0000	0.1259	0.8454	1.052	8.669	1.000	0.000	28.67	15	44	57	1.000
	300	1.0000	0.1152	0.8826	1.081	13.988	1.000	0.000	38.09	19	58	82	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.2174	0.8282	1.039	7.198	1.000	0.000	24.87	15	36	48	1.001
	200	1.0000	0.1877	0.8949	1.087	14.457	1.000	0.000	40.78	25	58	73	1.001
	300	1.0000	0.1725	0.9217	1.141	24.910	1.000	0.000	55.07	31	78	101	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1928	0.8086	1.034	6.326	1.000	0.000	22.51	13	33	46	1.000
	200	1.0000	0.1660	0.8815	1.074	12.201	1.000	0.000	36.53	21	53	70	1.000
	300	1.0000	0.1527	0.9113	1.120	20.816	1.000	0.000	49.19	27	72	96	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1469	0.7584	1.025	4.751	1.000	0.000	18.10	10	27.5	40	1.000
	200	1.0000	0.1259	0.8454	1.052	8.669	1.000	0.000	28.67	15	44	57	1.000
	300	1.0000	0.1152	0.8826	1.081	13.979	1.000	0.000	38.09	19	58	82	1.000

Notes: See notes to Table 55.

Table 256: MC findings for DGPII(b)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8460	0.1196	0.6696	1.353	10.630	0.545	0.004	14.86	3	32	49	1.023
	200	0.8219	0.0982	0.7460	1.775	33.535	0.514	0.002	22.54	3	52	81	1.021
	300	0.7989	0.0891	0.7736	2.676	185.729	0.462	0.002	29.56	3	72	265	1.096
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8226	0.1008	0.6253	1.297	8.562	0.494	0.008	12.97	2	28	44	1.015
	200	0.7934	0.0824	0.7052	1.605	25.193	0.464	0.002	19.33	2	47	76	1.015
	300	0.7709	0.0741	0.7361	2.202	123.371	0.421	0.002	25.00	2	65	290	1.054
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7664	0.0675	0.5198	1.215	5.812	0.402	0.016	9.55	2	22.5	40	1.010
	200	0.7353	0.0558	0.6055	1.406	14.507	0.379	0.008	13.87	1	37	68	1.010
	300	0.7128	0.0486	0.6390	1.732	53.876	0.337	0.003	17.24	1	51	266	1.010
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8448	0.1194	0.6689	1.348	10.521	0.543	0.004	14.84	3	32	49	1.003
	200	0.8211	0.0981	0.7458	1.764	32.959	0.513	0.002	22.52	3	52	81	1.004
	300	0.7980	0.0885	0.7732	2.686	196.636	0.461	0.002	29.38	3	71.5	275	1.067
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8216	0.1007	0.6251	1.294	8.503	0.494	0.008	12.96	2	28	44	1.003
	200	0.7925	0.0824	0.7052	1.599	24.723	0.464	0.002	19.32	2	47	76	1.002
	300	0.7708	0.0738	0.7355	2.809	1260.175	0.421	0.002	24.92	2	65	290	1.039
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7653	0.0675	0.5194	1.213	5.761	0.399	0.016	9.54	1	22.5	40	1.002
	200	0.7340	0.0558	0.6050	1.403	14.427	0.378	0.008	13.86	1	37	68	1.001
	300	0.7125	0.0486	0.6389	1.699	49.064	0.337	0.003	17.24	1	51	266	1.007

Notes: See notes to Table 55.

Table 257: MC findings for DGPII(b)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9985	0.1479	0.7457	1.058	6.135	0.994	0.003	18.19	9	29	42	1.007
	200	0.9975	0.1226	0.8278	1.118	12.261	0.990	0.000	28.01	11	48	74	1.011
	300	0.9966	0.1109	0.8643	1.187	19.849	0.987	0.001	36.83	14	66	93	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9984	0.1261	0.7099	1.049	5.236	0.994	0.007	16.10	7	26	41	1.006
	200	0.9965	0.1045	0.7991	1.096	9.864	0.986	0.000	24.47	9	43	67	1.005
	300	0.9958	0.0947	0.8397	1.149	15.939	0.983	0.001	32.01	12	58	86	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9963	0.0883	0.6210	1.034	3.835	0.985	0.016	12.46	5	21	35	1.006
	200	0.9930	0.0727	0.7230	1.063	6.562	0.973	0.005	18.23	7	34	56	1.005
	300	0.9931	0.0661	0.7733	1.094	9.938	0.973	0.005	23.54	8	46	75	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9984	0.1478	0.7457	1.058	6.102	0.994	0.003	18.19	9	29	42	1.003
	200	0.9971	0.1225	0.8278	1.117	12.160	0.989	0.000	28.00	11	48	74	1.002
	300	0.9961	0.1109	0.8644	1.187	19.786	0.985	0.001	36.82	14	66	93	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9983	0.1261	0.7099	1.048	5.210	0.993	0.007	16.09	7	26	41	1.002
	200	0.9963	0.1045	0.7991	1.095	9.830	0.985	0.000	24.46	9	43	67	1.001
	300	0.9953	0.0947	0.8398	1.149	15.849	0.981	0.001	32.01	12	58	86	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9954	0.0883	0.6212	1.034	3.817	0.982	0.016	12.46	5	21	35	1.002
	200	0.9926	0.0727	0.7231	1.063	6.555	0.971	0.005	18.22	7	34	56	1.002
	300	0.9926	0.0661	0.7733	1.094	9.940	0.971	0.005	23.54	8	46	75	1.001

Notes: See notes to Table 55.

Table 258: MC findings for DGPII(b)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1561	0.7663	1.026	5.138	1.000	0.001	18.98	10	29	42	1.009
	200	1.0000	0.1277	0.8450	1.053	9.203	1.000	0.000	29.03	15	45	63	1.006
	300	1.0000	0.1147	0.8792	1.082	12.980	1.000	0.000	37.95	18	60	80	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1338	0.7338	1.022	4.411	1.000	0.002	16.84	9	26	40	1.005
	200	1.0000	0.1094	0.8210	1.044	7.679	1.000	0.000	25.44	13	40	58	1.005
	300	1.0000	0.0984	0.8592	1.067	10.703	1.000	0.000	33.12	15	54	77	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0953	0.6554	1.015	3.283	1.000	0.004	13.15	7	21	33	1.000
	200	0.9999	0.0771	0.7553	1.030	5.309	1.000	0.002	19.10	9	31	51	1.001
	300	1.0000	0.0690	0.8021	1.044	7.067	1.000	0.001	24.41	10	42	67	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1560	0.7662	1.026	5.083	1.000	0.001	18.97	10	29	42	1.001
	200	1.0000	0.1277	0.8450	1.053	9.173	1.000	0.000	29.03	15	45	63	1.001
	300	1.0000	0.1147	0.8791	1.082	12.963	1.000	0.000	37.95	18	60	80	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1337	0.7337	1.022	4.389	1.000	0.002	16.84	9	26	40	1.000
	200	1.0000	0.1094	0.8210	1.044	7.625	1.000	0.000	25.43	13	40	58	1.001
	300	1.0000	0.0984	0.8592	1.067	10.694	1.000	0.000	33.12	15	54	77	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0953	0.6554	1.015	3.283	1.000	0.004	13.15	7	21	33	1.000
	200	0.9998	0.0771	0.7553	1.030	5.311	0.999	0.001	19.10	9	31	51	1.000
	300	1.0000	0.0690	0.8020	1.044	7.064	1.000	0.001	24.41	10	42	67	1.000

Notes: See notes to Table 55.

Table 259: MC findings for DGPII(b)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6196	0.0573	0.4952	1.181	5.745	0.276	0.007	7.97	0	22	50	1.013
	200	0.5945	0.0452	0.5840	1.315	13.023	0.244	0.001	11.24	0	34.5	67	1.009
	300	0.5631	0.0403	0.6256	1.560	37.192	0.221	0.002	14.18	0	46.5	274	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5770	0.0445	0.4290	1.150	4.467	0.236	0.010	6.58	0	19	47	1.010
	200	0.5510	0.0356	0.5225	1.254	9.590	0.200	0.002	9.18	0	29	63	1.004
	300	0.5195	0.0316	0.5649	1.405	21.153	0.186	0.002	11.43	0	40	87	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4828	0.0260	0.3128	1.120	3.003	0.161	0.007	4.43	0	14	41	1.003
	200	0.4618	0.0205	0.3927	1.180	5.557	0.133	0.003	5.86	0	20	50	1.001
	300	0.4303	0.0184	0.4347	1.249	9.178	0.134	0.006	7.18	0	28	72	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6190	0.0572	0.4946	1.179	5.694	0.275	0.006	7.96	0	22	50	1.004
	200	0.5945	0.0452	0.5839	1.310	12.467	0.244	0.001	11.23	0	34	67	1.001
	300	0.5631	0.0399	0.6253	1.627	161.643	0.221	0.002	14.08	0	46.5	98	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5768	0.0444	0.4283	1.149	4.450	0.235	0.009	6.57	0	19	47	1.004
	200	0.5509	0.0356	0.5222	1.253	9.567	0.200	0.002	9.17	0	29	63	1.001
	300	0.5195	0.0316	0.5647	1.404	21.110	0.186	0.002	11.42	0	40	87	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4826	0.0260	0.3125	1.120	3.000	0.161	0.007	4.43	0	14	41	1.001
	200	0.4616	0.0205	0.3926	1.180	5.554	0.133	0.003	5.86	0	20	50	1.000
	300	0.4303	0.0184	0.4347	1.246	8.534	0.134	0.006	7.18	0	28	72	1.000

Notes: See notes to Table 55.

Table 260: MC findings for DGPII(b)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9799	0.0781	0.5861	1.032	3.421	0.924	0.016	11.42	5	21	31	1.007
	200	0.9775	0.0596	0.6670	1.053	5.817	0.913	0.013	15.60	5	32	55	1.004
	300	0.9720	0.0522	0.7152	1.079	7.840	0.897	0.011	19.33	5	40	75	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9745	0.0628	0.5268	1.027	3.021	0.905	0.029	9.92	4	19	29	1.006
	200	0.9703	0.0480	0.6108	1.044	4.806	0.887	0.024	13.29	4	28	50	1.002
	300	0.9660	0.0417	0.6586	1.061	6.152	0.876	0.019	16.21	4	35	67	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9575	0.0381	0.3962	1.019	2.440	0.851	0.090	7.48	3	14	25	1.003
	200	0.9504	0.0291	0.4823	1.029	3.339	0.823	0.060	9.51	3	20	39	1.002
	300	0.9454	0.0253	0.5318	1.039	3.992	0.810	0.043	11.26	3	26	52	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9795	0.0781	0.5859	1.032	3.403	0.922	0.015	11.41	5	21	31	1.001
	200	0.9773	0.0596	0.6670	1.053	5.797	0.912	0.013	15.59	5	32	55	1.000
	300	0.9718	0.0521	0.7152	1.078	7.814	0.897	0.011	19.32	5	40	75	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9741	0.0627	0.5266	1.027	3.001	0.904	0.028	9.92	4	19	29	1.001
	200	0.9703	0.0480	0.6108	1.044	4.779	0.887	0.024	13.29	4	28	50	1.000
	300	0.9658	0.0417	0.6586	1.061	6.134	0.876	0.019	16.20	4	35	67	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9574	0.0380	0.3961	1.019	2.428	0.850	0.089	7.48	3	14	25	1.001
	200	0.9503	0.0291	0.4822	1.029	3.332	0.823	0.060	9.51	3	20	39	1.000
	300	0.9451	0.0253	0.5318	1.039	3.990	0.810	0.043	11.26	3	26	52	1.000

Notes: See notes to Table 55.

Table 261: MC findings for DGPII(b)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0846	0.6202	1.016	3.199	0.997	0.009	12.12	6	20	36	1.004
	200	0.9990	0.0648	0.7103	1.027	4.762	0.996	0.005	16.69	7	30	50	1.003
	300	0.9984	0.0552	0.7556	1.036	5.996	0.994	0.003	20.34	8	37	61	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9989	0.0688	0.5655	1.013	2.783	0.996	0.019	10.60	5	18	32	1.003
	200	0.9984	0.0523	0.6578	1.022	4.025	0.994	0.011	14.24	6	26	43	1.003
	300	0.9978	0.0444	0.7071	1.029	4.961	0.991	0.008	17.13	6	31	54	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9978	0.0432	0.4398	1.008	2.206	0.991	0.078	8.13	4	14	23	1.001
	200	0.9965	0.0321	0.5309	1.014	2.896	0.986	0.045	10.28	5	20	33	1.000
	300	0.9960	0.0271	0.5876	1.019	3.365	0.984	0.033	12.02	5	23	41	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0846	0.6201	1.016	3.179	0.997	0.009	12.12	6	20	36	1.001
	200	0.9990	0.0647	0.7103	1.027	4.749	0.996	0.005	16.69	7	30	50	1.000
	300	0.9983	0.0552	0.7556	1.036	5.971	0.993	0.003	20.34	8	37	61	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9989	0.0688	0.5654	1.013	2.776	0.996	0.019	10.60	5	18	32	1.001
	200	0.9984	0.0523	0.6577	1.022	4.007	0.994	0.011	14.24	6	26	43	1.000
	300	0.9978	0.0444	0.7070	1.029	4.949	0.991	0.008	17.13	6	31	54	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9978	0.0431	0.4396	1.008	2.204	0.991	0.079	8.13	4	14	23	1.000
	200	0.9965	0.0321	0.5309	1.014	2.896	0.986	0.045	10.28	5	20	33	1.000
	300	0.9960	0.0271	0.5876	1.019	3.363	0.984	0.033	12.02	5	23	41	1.000

Notes: See notes to Table 55.

5.3 Findings for designs with zero net signal effects

Table 262: MC findings for DGPIII

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8975	0.1156	0.6423	1.498	20.657	0.651	0.049	14.69	4	31	51	1.610
	200	0.8281	0.0958	0.7308	1.934	52.135	0.413	0.040	22.08	4	50	85	1.384
	300	0.7968	0.0904	0.7716	2.817	245.575	0.330	0.031	29.95	5	72	287	1.368
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8900	0.0964	0.5933	1.441	18.259	0.643	0.080	12.81	4	28	48	1.624
	200	0.8215	0.0801	0.6888	1.797	36.164	0.413	0.056	18.99	4	45	80	1.402
	300	0.7880	0.0747	0.7317	2.481	158.628	0.321	0.043	25.26	4	64	275	1.336
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8676	0.0643	0.4923	1.366	14.923	0.605	0.134	9.64	4	22	40	1.617
	200	0.7973	0.0538	0.5963	1.589	24.040	0.400	0.088	13.73	4	35	65	1.421
	300	0.7648	0.0493	0.6399	1.990	71.627	0.312	0.074	17.65	4	51	287	1.310
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8646	0.1141	0.6416	1.537	21.827	0.535	0.057	14.41	4	31	51	1.464
	200	0.8004	0.0952	0.7306	1.956	45.070	0.310	0.044	21.87	4	50	84	1.259
	300	0.7720	0.0904	0.7720	2.815	222.700	0.236	0.032	29.85	5	72	277	1.251
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8568	0.0952	0.5927	1.486	19.821	0.527	0.086	12.56	4	28	48	1.475
	200	0.7936	0.0797	0.6884	1.823	36.368	0.312	0.060	18.79	4	45	80	1.278
	300	0.7648	0.0745	0.7310	2.491	169.559	0.236	0.044	25.10	4	64	282	1.228
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8388	0.0633	0.4893	1.413	16.108	0.504	0.145	9.43	3	22	40	1.495
	200	0.7678	0.0534	0.5946	1.630	24.831	0.296	0.092	13.53	3	35	65	1.294
	300	0.7416	0.0491	0.6393	1.997	60.517	0.229	0.075	17.49	3	51	287	1.209

Notes: See notes to Table 64.

Table 263: MC findings for DGPIII

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1435	0.7417	1.055	6.313	1.000	0.001	17.77	8	29	43	1.906
	200	1.0000	0.1178	0.8224	1.110	11.796	1.000	0.000	27.09	11	45	67	1.925
	300	0.9995	0.1045	0.8571	1.170	19.269	0.998	0.001	34.92	13	61	92	1.929
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1211	0.7031	1.045	5.234	1.000	0.004	15.63	7	26	40	1.919
	200	1.0000	0.1002	0.7935	1.089	9.611	1.000	0.001	23.65	9	41	60	1.936
	300	0.9998	0.0886	0.8317	1.133	15.142	0.999	0.001	30.24	11	55	86	1.942
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0835	0.6080	1.030	3.801	1.000	0.018	12.02	6	21	34	1.951
	200	1.0000	0.0686	0.7106	1.057	6.322	1.000	0.009	17.45	6	32	49	1.964
	300	1.0000	0.0610	0.7608	1.080	9.151	1.000	0.003	22.05	7	43	68	1.972
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1395	0.7346	1.050	5.814	1.000	0.002	17.39	8	28.5	43	1.901
	200	1.0000	0.1164	0.8192	1.105	11.253	1.000	0.000	26.82	11	45	67	1.922
	300	0.9993	0.1038	0.8553	1.165	18.883	0.997	0.001	34.73	13	61	92	1.926
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1180	0.6953	1.041	4.938	1.000	0.005	15.33	7	26	40	1.916
	200	1.0000	0.0990	0.7896	1.084	9.137	1.000	0.001	23.41	9	41	60	1.935
	300	0.9991	0.0881	0.8292	1.129	15.276	0.997	0.001	30.07	11	54.5	86	1.939
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0812	0.5975	1.028	3.573	1.000	0.023	11.79	5	21	34	1.950
	200	1.0000	0.0678	0.7055	1.055	6.021	1.000	0.010	17.28	6	32	49	1.964
	300	0.9998	0.0606	0.7567	1.078	9.307	0.999	0.005	21.92	7	43	68	1.971

Notes: See notes to Table 64.

Table 264: MC findings for DGPIII

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1499	0.7578	1.027	5.412	1.000	0.001	18.39	10	29	39	1.913
	200	1.0000	0.1225	0.8400	1.053	9.572	1.000	0.000	28.01	14	44	58	1.929
	300	1.0000	0.1095	0.8739	1.076	14.397	1.000	0.000	36.42	18	57	83	1.923
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1271	0.7210	1.023	4.620	1.000	0.002	16.20	8	26	35	1.930
	200	1.0000	0.1040	0.8130	1.044	7.907	1.000	0.000	24.39	12	39	55	1.940
	300	1.0000	0.0931	0.8517	1.062	11.653	1.000	0.000	31.56	15	51	70	1.935
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0874	0.6296	1.015	3.330	1.000	0.008	12.39	6	20	32	1.956
	200	1.0000	0.0714	0.7399	1.028	5.358	1.000	0.002	18.00	8	31	46	1.958
	300	1.0000	0.0644	0.7912	1.039	7.636	1.000	0.001	23.06	10	40	60	1.959
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1440	0.7489	1.025	4.998	1.000	0.001	17.83	9	28	39	1.909
	200	1.0000	0.1197	0.8358	1.049	8.871	1.000	0.000	27.47	14	44	57	1.926
	300	1.0000	0.1080	0.8715	1.072	13.553	1.000	0.000	35.97	17	57	83	1.922
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1220	0.7103	1.021	4.301	1.000	0.002	15.71	8	25	35	1.927
	200	1.0000	0.1016	0.8080	1.041	7.372	1.000	0.000	23.91	11	39	54	1.937
	300	1.0000	0.0918	0.8488	1.058	11.065	1.000	0.000	31.17	14	51	70	1.934
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0840	0.6175	1.014	3.085	1.000	0.012	12.06	6	20	31	1.956
	200	1.0000	0.0698	0.7336	1.026	5.008	1.000	0.002	17.69	8	31	46	1.958
	300	1.0000	0.0635	0.7871	1.037	7.263	1.000	0.001	22.79	9	39	60	1.959

Notes: See notes to Table 64.

Table 265: MC findings for DGPIII

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7390	0.0697	0.5381	1.324	11.068	0.238	0.064	9.65	3	23	42	1.244
	200	0.6804	0.0550	0.6202	1.502	30.051	0.118	0.042	13.50	3	38	82	1.120
	300	0.6593	0.0505	0.6548	1.837	56.624	0.081	0.030	17.57	2	51	258	1.090
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7146	0.0557	0.4809	1.293	9.756	0.210	0.083	8.21	2	20	38	1.228
	200	0.6533	0.0442	0.5693	1.428	17.937	0.105	0.041	11.27	2	34	74	1.111
	300	0.6360	0.0401	0.5992	1.645	47.925	0.070	0.032	14.42	2	44	83	1.079
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6558	0.0334	0.3655	1.259	8.331	0.158	0.091	5.83	1	15	34	1.197
	200	0.5945	0.0267	0.4505	1.339	12.777	0.077	0.047	7.61	1	24	66	1.094
	300	0.5790	0.0243	0.4848	1.417	16.022	0.052	0.032	9.51	1	31	70	1.063
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7109	0.0692	0.5392	1.335	11.204	0.142	0.048	9.49	3	23	42	1.114
	200	0.6668	0.0548	0.6192	1.499	23.416	0.076	0.027	13.40	2	38	82	1.045
	300	0.6503	0.0501	0.6546	1.806	52.107	0.049	0.020	17.43	2	51	92	1.027
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6883	0.0554	0.4817	1.308	10.027	0.128	0.061	8.07	2	20	38	1.112
	200	0.6399	0.0440	0.5669	1.432	17.925	0.060	0.028	11.18	2	34	74	1.040
	300	0.6266	0.0401	0.5986	1.641	45.897	0.039	0.018	14.36	2	44	83	1.025
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6361	0.0331	0.3649	1.270	8.489	0.102	0.065	5.73	1	15	34	1.112
	200	0.5845	0.0266	0.4483	1.342	12.790	0.044	0.031	7.55	1	24	66	1.043
	300	0.5711	0.0243	0.4834	1.420	16.028	0.028	0.019	9.47	1	31	70	1.024

Notes: See notes to Table 64.

Table 266: MC findings for DGPIII

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0911	0.6225	1.035	4.272	0.999	0.020	12.74	5	23	38	1.942
	200	0.9918	0.0727	0.7133	1.068	9.671	0.968	0.012	18.22	6	35	52	1.923
	300	0.9774	0.0676	0.7759	1.118	15.863	0.910	0.005	23.91	7	47	75	1.867
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0739	0.5662	1.029	3.714	0.998	0.033	11.09	5	20	33	1.956
	200	0.9938	0.0593	0.6604	1.053	7.986	0.975	0.028	15.60	5	31	49	1.944
	300	0.9789	0.0552	0.7329	1.094	13.437	0.917	0.010	20.26	6	40	67	1.883
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0461	0.4418	1.019	2.968	0.997	0.094	8.42	4	16	26	1.977
	200	0.9944	0.0371	0.5360	1.034	5.989	0.979	0.070	11.24	4	23	42	1.963
	300	0.9809	0.0348	0.6198	1.062	10.122	0.927	0.042	14.21	5	30	50	1.913
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9985	0.0898	0.6177	1.034	4.668	0.994	0.023	12.62	5	23	38	1.935
	200	0.9804	0.0723	0.7127	1.077	12.062	0.922	0.013	18.09	6	35	52	1.877
	300	0.9506	0.0674	0.7783	1.142	19.904	0.803	0.006	23.75	7	47	75	1.757
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9981	0.0729	0.5614	1.028	4.234	0.993	0.033	10.99	5	20	33	1.949
	200	0.9816	0.0589	0.6599	1.063	10.728	0.928	0.029	15.48	5	31	49	1.894
	300	0.9546	0.0551	0.7348	1.116	17.163	0.820	0.012	20.12	6	40	67	1.784
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9975	0.0455	0.4374	1.019	3.625	0.992	0.102	8.36	4	16	26	1.971
	200	0.9843	0.0368	0.5354	1.042	8.466	0.941	0.074	11.16	4	23	42	1.923
	300	0.9621	0.0347	0.6220	1.078	13.297	0.853	0.043	14.11	5	30	50	1.838

Notes: See notes to Table 64.

Table 267: MC findings for DGPIII

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0951	0.6495	1.018	3.799	1.000	0.009	13.13	6	22	34	1.943
	200	1.0000	0.0770	0.7503	1.031	5.859	1.000	0.002	19.09	8	33	51	1.955
	300	1.0000	0.0683	0.7974	1.045	8.295	1.000	0.001	24.20	10	43	70	1.965
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0774	0.5966	1.015	3.229	1.000	0.016	11.43	6	19	28	1.952
	200	1.0000	0.0628	0.7032	1.026	4.913	1.000	0.007	16.30	7	29	43	1.965
	300	1.0000	0.0557	0.7575	1.036	6.800	1.000	0.001	20.49	8	37	63	1.974
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0489	0.4728	1.009	2.448	1.000	0.056	8.70	4	15	23	1.974
	200	1.0000	0.0395	0.5872	1.016	3.429	1.000	0.027	11.74	5	22	32	1.979
	300	1.0000	0.0353	0.6517	1.023	4.393	1.000	0.014	14.44	6	28	48	1.984
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0932	0.6438	1.016	3.546	1.000	0.010	12.95	6	22	32	1.938
	200	1.0000	0.0763	0.7476	1.030	5.597	1.000	0.003	18.95	8	33	51	1.953
	300	1.0000	0.0679	0.7958	1.043	8.015	1.000	0.001	24.10	9.5	42.5	70	1.963
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0761	0.5913	1.014	3.073	1.000	0.017	11.31	5	19	28	1.950
	200	1.0000	0.0622	0.7003	1.024	4.715	1.000	0.007	16.19	7	29	43	1.963
	300	1.0000	0.0554	0.7554	1.035	6.622	1.000	0.002	20.41	8	37	63	1.972
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0480	0.4668	1.009	2.353	1.000	0.059	8.61	4	15	23	1.974
	200	1.0000	0.0391	0.5838	1.015	3.323	1.000	0.029	11.67	5	22	32	1.979
	300	1.0000	0.0351	0.6493	1.022	4.307	1.000	0.016	14.39	6	28	48	1.984

Notes: See notes to Table 64.

Table 268: MC findings for DGPIII

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4951	0.0347	0.4186	1.168	5.014	0.041	0.018	5.31	0	15	34	1.046
	200	0.4441	0.0247	0.4753	1.214	7.470	0.018	0.005	6.62	0	22	58	1.026
	300	0.4138	0.0218	0.4992	1.290	13.692	0.013	0.009	8.11	0	29	69	1.019
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4520	0.0258	0.3605	1.158	4.595	0.030	0.013	4.28	0	13	33	1.036
	200	0.4044	0.0182	0.4109	1.182	6.037	0.013	0.006	5.19	0	18	51	1.019
	300	0.3706	0.0163	0.4387	1.235	9.576	0.009	0.007	6.32	0	24	63	1.015
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3518	0.0131	0.2408	1.145	4.101	0.014	0.007	2.67	0	8	28	1.018
	200	0.3170	0.0091	0.2870	1.156	4.736	0.007	0.005	3.06	0	11	41	1.009
	300	0.2865	0.0086	0.3243	1.181	5.783	0.003	0.002	3.69	0	15.5	52	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4886	0.0346	0.4183	1.168	4.985	0.024	0.010	5.27	0	15	34	1.012
	200	0.4414	0.0246	0.4737	1.212	7.323	0.014	0.002	6.59	0	22	58	1.003
	300	0.4126	0.0218	0.4980	1.287	13.624	0.010	0.007	8.09	0	29	69	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4465	0.0257	0.3604	1.158	4.576	0.018	0.008	4.25	0	13	33	1.010
	200	0.4025	0.0182	0.4099	1.182	6.005	0.010	0.004	5.18	0	18	51	1.004
	300	0.3695	0.0163	0.4376	1.233	9.533	0.006	0.004	6.31	0	24	63	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3498	0.0131	0.2401	1.145	4.099	0.009	0.005	2.66	0	8	28	1.007
	200	0.3163	0.0091	0.2856	1.156	4.728	0.004	0.003	3.05	0	11	41	1.003
	300	0.2860	0.0086	0.3237	1.181	5.779	0.002	0.001	3.68	0	15.5	52	1.001

Notes: See notes to Table 64.

Table 269: MC findings for DGPIII

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9548	0.0437	0.4345	1.035	5.711	0.832	0.107	8.02	4	15	24	1.829
	200	0.9019	0.0327	0.5252	1.063	9.290	0.632	0.079	10.02	4	21	42	1.633
	300	0.8635	0.0273	0.5774	1.084	10.967	0.487	0.057	11.54	4	26	56	1.487
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9504	0.0333	0.3671	1.031	5.580	0.817	0.166	7.00	4	13	21	1.830
	200	0.9006	0.0248	0.4535	1.057	8.740	0.636	0.123	8.46	4	18	39	1.650
	300	0.8621	0.0206	0.5056	1.076	10.179	0.496	0.099	9.55	4	21.5	52	1.503
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9363	0.0177	0.2370	1.027	5.538	0.782	0.304	5.44	3	10	17	1.819
	200	0.8908	0.0131	0.3093	1.047	8.010	0.624	0.233	6.13	3	12	29	1.670
	300	0.8556	0.0109	0.3516	1.062	9.045	0.514	0.188	6.65	3	15	32	1.550
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9234	0.0434	0.4393	1.046	7.257	0.712	0.097	7.86	4	15	24	1.701
	200	0.8518	0.0326	0.5352	1.084	11.122	0.439	0.070	9.80	4	20	42	1.430
	300	0.8188	0.0273	0.5864	1.101	12.280	0.315	0.047	11.35	4	26	56	1.304
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9179	0.0331	0.3720	1.042	7.127	0.695	0.147	6.85	4	13	21	1.698
	200	0.8539	0.0247	0.4625	1.076	10.483	0.457	0.107	8.25	4	18	39	1.460
	300	0.8179	0.0206	0.5146	1.092	11.497	0.328	0.081	9.37	3.5	21	52	1.323
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9085	0.0175	0.2401	1.037	6.753	0.685	0.282	5.32	3	10	17	1.707
	200	0.8495	0.0131	0.3154	1.063	9.506	0.476	0.199	5.96	3	12	29	1.504
	300	0.8120	0.0109	0.3591	1.078	10.356	0.357	0.146	6.47	3	15	32	1.375

Notes: See notes to Table 64.

Table 270: MC findings for DGPIII

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0468	0.4602	1.012	2.683	0.999	0.061	8.50	4	15	23	1.973
	200	0.9978	0.0349	0.5508	1.017	3.920	0.991	0.043	10.82	5	20	37	1.976
	300	0.9899	0.0301	0.6065	1.025	6.648	0.960	0.027	12.86	5	25	41	1.943
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0356	0.3888	1.010	2.425	0.999	0.121	7.41	4	13	21	1.982
	200	0.9980	0.0267	0.4782	1.014	3.432	0.992	0.079	9.23	4	17	34	1.982
	300	0.9918	0.0229	0.5349	1.019	5.745	0.967	0.054	10.74	4	22	36	1.955
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0190	0.2522	1.006	1.936	0.998	0.289	5.82	4	10	18	1.988
	200	0.9980	0.0142	0.3261	1.009	2.803	0.992	0.211	6.78	4	12	23	1.989
	300	0.9945	0.0122	0.3753	1.012	4.273	0.978	0.177	7.58	4	15	27	1.974
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9979	0.0464	0.4574	1.012	3.232	0.992	0.064	8.45	4	15	23	1.964
	200	0.9915	0.0347	0.5507	1.019	5.259	0.966	0.045	10.77	5	20	37	1.948
	300	0.9718	0.0300	0.6096	1.031	9.490	0.887	0.027	12.76	5	25	41	1.868
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9978	0.0352	0.3861	1.010	2.991	0.991	0.123	7.37	4	13	21	1.972
	200	0.9933	0.0266	0.4776	1.016	4.481	0.973	0.083	9.18	4	17	34	1.961
	300	0.9773	0.0228	0.5372	1.025	8.265	0.910	0.055	10.67	4	22	36	1.897
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9983	0.0189	0.2508	1.006	2.335	0.993	0.290	5.81	4	10	18	1.982
	200	0.9940	0.0142	0.3258	1.010	3.855	0.976	0.213	6.76	4	12	23	1.972
	300	0.9833	0.0121	0.3771	1.016	6.579	0.933	0.176	7.52	4	15	27	1.929

Notes: See notes to Table 64.

5.4 Findings for designs with zero net signal effects and pseudo-signals

Table 271: MC findings for DGPIV(a)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8959	0.1302	0.7073	1.512	21.399	0.640	0.001	0.452	0.033	16.08	6	31	55	1.597
	200	0.8238	0.1030	0.7763	1.994	52.971	0.407	0.001	0.274	0.023	23.49	6	53	79	1.364
	300	0.7911	0.0908	0.8044	2.713	147.705	0.293	0.002	0.193	0.021	30.04	6	68	293	1.307
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8895	0.1110	0.6708	1.448	19.124	0.633	0.001	0.422	0.053	14.21	6	29	49	1.611
	200	0.8165	0.0874	0.7424	1.837	40.139	0.399	0.002	0.259	0.030	20.40	6	48	73	1.375
	300	0.7849	0.0752	0.7741	2.321	99.108	0.299	0.004	0.185	0.030	25.40	6	61	269	1.299
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8611	0.0781	0.5938	1.386	16.131	0.584	0.009	0.332	0.077	10.94	5	23	40	1.604
	200	0.7940	0.0604	0.6638	1.638	27.591	0.381	0.008	0.202	0.050	15.02	4	38	64	1.391
	300	0.7650	0.0512	0.7017	1.876	45.350	0.291	0.009	0.148	0.044	18.21	4	47	87	1.301
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8624	0.1288	0.7085	1.556	22.678	0.515	0.001	0.369	0.039	15.81	6	31	54	1.448
	200	0.7941	0.1026	0.7785	2.020	51.954	0.296	0.001	0.199	0.023	23.29	6	53	78	1.233
	300	0.7674	0.0902	0.8055	2.684	132.216	0.204	0.003	0.139	0.023	29.76	6	68	277	1.185
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8564	0.1098	0.6719	1.503	20.566	0.511	0.003	0.340	0.053	13.97	5	28	49	1.467
	200	0.7859	0.0871	0.7455	1.878	40.949	0.288	0.002	0.183	0.030	20.21	5	48	73	1.244
	300	0.7591	0.0749	0.7746	2.322	93.216	0.206	0.004	0.126	0.033	25.21	5	61	273	1.178
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8290	0.0773	0.5968	1.442	17.710	0.479	0.009	0.271	0.079	10.74	4	23	40	1.467
	200	0.7663	0.0601	0.6660	1.672	28.305	0.286	0.009	0.146	0.046	14.85	4	38	64	1.274
	300	0.7434	0.0510	0.7026	1.898	45.274	0.215	0.008	0.108	0.043	18.07	4	47	87	1.206

Notes: See notes to Table 46.

Table 272: MC findings for DGPIV(a)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1591	0.7690	1.063	7.685	1.000	0.000	0.987	0.001	19.27	10	31	45	1.895
	200	0.9999	0.1261	0.8374	1.124	14.326	1.000	0.000	0.981	0.001	28.72	13	47	78	1.930
	300	0.9996	0.1122	0.8692	1.189	22.499	0.999	0.000	0.978	0.000	37.20	15	64	99	1.928
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1374	0.7395	1.053	6.616	1.000	0.000	0.983	0.003	17.19	9	28	41	1.915
	200	1.0000	0.1084	0.8129	1.098	11.426	1.000	0.000	0.976	0.003	25.24	11	42.5	74	1.938
	300	0.9995	0.0963	0.8479	1.154	18.078	0.998	0.000	0.971	0.002	32.51	12	58	90	1.947
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1009	0.6720	1.036	4.912	1.000	0.000	0.970	0.014	13.68	7	23	34	1.949
	200	1.0000	0.0778	0.7526	1.063	7.626	1.000	0.000	0.965	0.006	19.24	9	34	56	1.960
	300	0.9999	0.0683	0.7925	1.094	11.140	1.000	0.000	0.952	0.006	24.22	9	46	75	1.966
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1557	0.7641	1.059	7.277	1.000	0.000	0.987	0.001	18.94	10	30	45	1.891
	200	0.9998	0.1247	0.8349	1.117	13.963	0.999	0.000	0.980	0.001	28.44	13	47	78	1.924
	300	0.9978	0.1115	0.8680	1.187	23.228	0.991	0.000	0.971	0.000	37.01	15	64	99	1.918
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1345	0.7339	1.049	6.258	1.000	0.000	0.983	0.004	16.92	9	27	41	1.913
	200	0.9999	0.1072	0.8101	1.093	11.168	1.000	0.000	0.975	0.004	25.02	11	42	74	1.934
	300	0.9984	0.0957	0.8462	1.151	18.620	0.994	0.000	0.967	0.003	32.33	12	58	90	1.942
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0988	0.6659	1.034	4.714	1.000	0.000	0.969	0.018	13.48	7	22	34	1.949
	200	0.9999	0.0769	0.7488	1.061	7.627	1.000	0.000	0.965	0.008	19.07	8	34	56	1.959
	300	0.9988	0.0679	0.7903	1.093	12.070	0.996	0.000	0.949	0.007	24.10	9	46	75	1.961

Notes: See notes to Table 46.

Table 273: MC findings for DGPIV(a)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1718	0.7892	1.031	7.100	1.000	0.000	1.000	0.001	20.49	12	30	39	1.913
	200	1.0000	0.1333	0.8533	1.055	10.708	1.000	0.000	1.000	0.000	30.12	16	46	61	1.913
	300	1.0000	0.1176	0.8848	1.085	15.699	1.000	0.000	1.000	0.000	38.82	20	60	86	1.933
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1492	0.7632	1.026	6.100	1.000	0.000	1.000	0.002	18.32	11	27	37	1.926
	200	1.0000	0.1151	0.8322	1.045	8.964	1.000	0.000	0.999	0.000	26.56	14	41	59	1.928
	300	1.0000	0.1013	0.8667	1.069	12.874	1.000	0.000	1.000	0.000	33.98	17	54	79	1.943
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1093	0.6996	1.019	4.635	1.000	0.000	0.998	0.006	14.50	8	22	33	1.948
	200	1.0000	0.0830	0.7762	1.031	6.552	1.000	0.000	0.998	0.002	20.27	10	33	49	1.953
	300	1.0000	0.0720	0.8178	1.044	8.579	1.000	0.000	0.999	0.000	25.32	12	43	64	1.966
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1659	0.7825	1.029	6.515	1.000	0.000	1.000	0.001	19.93	12	29	39	1.910
	200	1.0000	0.1307	0.8502	1.051	10.022	1.000	0.000	1.000	0.000	29.61	16	45	61	1.909
	300	1.0000	0.1162	0.8830	1.080	14.881	1.000	0.000	1.000	0.000	38.41	20	60	85	1.930
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1442	0.7556	1.024	5.715	1.000	0.000	1.000	0.003	17.84	10	27	36	1.924
	200	1.0000	0.1129	0.8286	1.042	8.463	1.000	0.000	0.999	0.000	26.12	14	41	59	1.926
	300	1.0000	0.1000	0.8646	1.065	12.181	1.000	0.000	1.000	0.000	33.61	17	54	79	1.941
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1059	0.6915	1.018	4.371	1.000	0.000	0.998	0.008	14.17	8	22	33	1.947
	200	1.0000	0.0815	0.7717	1.030	6.195	1.000	0.000	0.998	0.003	19.97	10	32.5	49	1.952
	300	1.0000	0.0712	0.8150	1.042	8.148	1.000	0.000	0.999	0.000	25.06	12	42.5	64	1.965

Notes: See notes to Table 46.

Table 274: MC findings for DGPIV(a)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7298	0.0842	0.6347	1.356	11.784	0.216	0.004	0.130	0.033	11.00	4	24	42	1.225
	200	0.6876	0.0626	0.6945	1.548	22.339	0.121	0.004	0.061	0.021	15.02	3	40	77	1.122
	300	0.6651	0.0567	0.7303	1.888	57.317	0.077	0.004	0.045	0.015	19.43	3	54	263	1.080
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7049	0.0693	0.5949	1.328	10.614	0.192	0.007	0.102	0.037	9.47	3	22	39	1.213
	200	0.6625	0.0511	0.6512	1.464	17.475	0.110	0.004	0.057	0.023	12.66	3	34.5	71	1.113
	300	0.6429	0.0464	0.6909	1.722	46.762	0.073	0.003	0.040	0.019	16.31	3	47	279	1.085
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6415	0.0453	0.5043	1.285	9.015	0.142	0.010	0.058	0.030	6.92	2	16	34	1.172
	200	0.6015	0.0325	0.5564	1.357	12.099	0.079	0.007	0.033	0.018	8.78	2	25	57	1.087
	300	0.5866	0.0290	0.5941	1.462	19.475	0.060	0.008	0.027	0.015	10.92	2	34	88	1.068
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7055	0.0837	0.6386	1.365	11.920	0.137	0.004	0.085	0.025	10.86	3	24	42	1.107
	200	0.6743	0.0624	0.6959	1.548	22.202	0.076	0.002	0.041	0.014	14.93	3	40	77	1.050
	300	0.6563	0.0566	0.7312	1.883	56.850	0.048	0.003	0.031	0.010	19.37	3	54	263	1.027
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6838	0.0690	0.5983	1.338	10.802	0.127	0.006	0.071	0.032	9.36	3	22	39	1.116
	200	0.6494	0.0509	0.6522	1.466	17.503	0.069	0.003	0.039	0.017	12.58	3	34.5	71	1.053
	300	0.6328	0.0463	0.6918	1.716	45.424	0.042	0.003	0.025	0.014	16.25	3	47	279	1.029
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6240	0.0451	0.5058	1.294	9.176	0.088	0.006	0.037	0.021	6.83	2	16	34	1.094
	200	0.5919	0.0324	0.5563	1.362	12.169	0.049	0.004	0.022	0.015	8.72	1	25	57	1.041
	300	0.5769	0.0289	0.5946	1.464	19.499	0.030	0.005	0.014	0.009	10.87	1.5	34	88	1.023

Notes: See notes to Table 46.

Table 275: MC findings for DGPIV(a)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.1100	0.6866	1.043	5.776	0.997	0.000	0.948	0.019	14.56	7	24	35	1.943
	200	0.9906	0.0835	0.7618	1.079	11.470	0.963	0.000	0.908	0.009	20.32	8	37	56	1.924
	300	0.9744	0.0720	0.7993	1.124	18.198	0.898	0.000	0.845	0.006	25.21	9	48	84	1.862
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9989	0.0930	0.6477	1.036	5.167	0.996	0.000	0.938	0.036	12.92	7	22	32	1.950
	200	0.9909	0.0699	0.7255	1.066	9.993	0.964	0.000	0.890	0.015	17.66	7.5	33	49	1.931
	300	0.9769	0.0600	0.7663	1.100	15.311	0.909	0.000	0.840	0.010	21.67	8	43	72	1.880
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0653	0.5659	1.024	4.008	0.997	0.000	0.908	0.095	10.27	6	17	28	1.975
	200	0.9905	0.0473	0.6402	1.044	7.956	0.963	0.001	0.848	0.052	13.23	6	25	40	1.949
	300	0.9798	0.0402	0.6837	1.068	11.755	0.922	0.000	0.807	0.036	15.82	6	32	63	1.907
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9971	0.1089	0.6840	1.043	6.377	0.989	0.000	0.940	0.021	14.44	7	24	35	1.931
	200	0.9773	0.0831	0.7621	1.090	14.121	0.909	0.000	0.857	0.009	20.19	8	37	56	1.867
	300	0.9475	0.0718	0.8020	1.147	22.017	0.791	0.000	0.742	0.007	25.05	9	48	84	1.752
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9965	0.0920	0.6451	1.036	5.913	0.987	0.000	0.928	0.041	12.82	7	22	32	1.939
	200	0.9798	0.0696	0.7258	1.075	12.428	0.919	0.000	0.848	0.015	17.56	7	33	49	1.886
	300	0.9539	0.0599	0.7687	1.120	18.611	0.817	0.000	0.753	0.012	21.54	8	43	72	1.787
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9968	0.0648	0.5636	1.025	4.933	0.988	0.000	0.899	0.104	10.21	6	17	28	1.965
	200	0.9815	0.0471	0.6404	1.051	9.958	0.928	0.001	0.815	0.056	13.17	6	25	40	1.913
	300	0.9623	0.0401	0.6858	1.082	14.616	0.854	0.000	0.745	0.039	15.72	6	32	63	1.837

Notes: See notes to Table 46.

Table 276: MC findings for DGPIV(a)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1134	0.7052	1.021	4.749	1.000	0.000	0.996	0.005	14.88	8	23	35	1.941
	200	1.0000	0.0870	0.7825	1.035	6.952	1.000	0.000	0.997	0.004	21.05	10	34	51	1.952
	300	1.0000	0.0739	0.8181	1.047	8.944	1.000	0.000	0.995	0.001	25.88	12	45	70	1.962
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0959	0.6675	1.018	4.131	1.000	0.000	0.994	0.017	13.21	8	21	34	1.954
	200	1.0000	0.0731	0.7491	1.028	5.936	1.000	0.000	0.996	0.008	18.32	9	30	45	1.965
	300	1.0000	0.0617	0.7873	1.038	7.439	1.000	0.000	0.995	0.001	22.26	10	40	66	1.970
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0677	0.5861	1.012	3.225	1.000	0.000	0.991	0.060	10.50	6	17	26	1.974
	200	1.0000	0.0497	0.6689	1.018	4.446	1.000	0.000	0.995	0.028	13.74	7	23	35	1.983
	300	1.0000	0.0415	0.7092	1.024	5.102	1.000	0.000	0.991	0.012	16.29	8	30	50	1.984
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1115	0.7011	1.019	4.517	1.000	0.000	0.996	0.007	14.70	8	23	35	1.938
	200	1.0000	0.0863	0.7809	1.033	6.655	1.000	0.000	0.997	0.004	20.92	10	34	51	1.951
	300	1.0000	0.0737	0.8172	1.045	8.716	1.000	0.000	0.995	0.001	25.80	12	45	70	1.960
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0946	0.6638	1.016	3.968	1.000	0.000	0.994	0.019	13.08	7	21	34	1.953
	200	1.0000	0.0726	0.7476	1.027	5.735	1.000	0.000	0.996	0.009	18.23	9	30	45	1.965
	300	1.0000	0.0615	0.7862	1.037	7.265	1.000	0.000	0.995	0.001	22.19	10	40	66	1.968
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0669	0.5824	1.011	3.146	1.000	0.000	0.991	0.066	10.42	6	17	26	1.974
	200	1.0000	0.0494	0.6668	1.018	4.332	1.000	0.000	0.995	0.030	13.68	7	23	35	1.983
	300	0.9999	0.0414	0.7079	1.024	5.133	1.000	0.000	0.991	0.014	16.24	8	30	50	1.983

Notes: See notes to Table 46.

Table 277: MC findings for DGPIV(a)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method										
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4954	0.0419	0.5142	1.180	5.736	0.037	0.003	0.019	0.010	6.01	0	16	41	1.046
	200	0.4348	0.0273	0.5464	1.231	7.074	0.016	0.003	0.007	0.003	7.09	0	24	48	1.017
	300	0.4073	0.0213	0.5669	1.285	13.870	0.012	0.000	0.007	0.003	7.94	0	27	78	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4498	0.0321	0.4590	1.162	5.045	0.029	0.002	0.013	0.006	4.89	0	13	37	1.031
	200	0.3940	0.0208	0.4866	1.198	5.841	0.011	0.002	0.005	0.003	5.66	0	19	46	1.012
	300	0.3620	0.0161	0.5086	1.240	10.287	0.008	0.000	0.005	0.003	6.22	0	22	74	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3504	0.0177	0.3454	1.148	4.419	0.012	0.002	0.005	0.003	3.10	0	9	29	1.015
	200	0.2996	0.0112	0.3680	1.166	4.552	0.005	0.001	0.001	0.001	3.39	0	12	39	1.006
	300	0.2795	0.0086	0.3837	1.188	6.570	0.002	0.001	0.000	0.000	3.66	0	13.5	62	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4891	0.0418	0.5143	1.177	5.692	0.022	0.001	0.014	0.008	5.97	0	16	41	1.011
	200	0.4338	0.0272	0.5460	1.228	6.926	0.014	0.002	0.006	0.003	7.07	0	24	48	1.002
	300	0.4064	0.0213	0.5664	1.282	13.818	0.010	0.000	0.007	0.004	7.92	0	27	78	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4453	0.0321	0.4590	1.161	5.038	0.017	0.000	0.011	0.005	4.86	0	13	37	1.007
	200	0.3929	0.0208	0.4863	1.197	5.823	0.010	0.002	0.005	0.003	5.65	0	19	46	1.002
	300	0.3613	0.0161	0.5086	1.238	10.205	0.007	0.000	0.005	0.003	6.22	0	22	74	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3490	0.0176	0.3452	1.147	4.418	0.009	0.001	0.003	0.002	3.09	0	9	29	1.008
	200	0.2989	0.0112	0.3679	1.166	4.550	0.003	0.001	0.001	0.001	3.38	0	12	39	1.001
	300	0.2791	0.0086	0.3834	1.188	6.560	0.002	0.001	0.000	0.000	3.66	0	13.5	62	1.001

Notes: See notes to Table 46.

Table 278: MC findings for DGPIV(a)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9550	0.0611	0.5542	1.039	6.810	0.829	0.001	0.669	0.096	9.69	6	17	29	1.823
	200	0.9004	0.0394	0.6145	1.070	10.160	0.624	0.003	0.468	0.060	11.33	6	22	45	1.624
	300	0.8615	0.0342	0.6673	1.094	12.666	0.478	0.004	0.357	0.041	13.56	6	28.5	58	1.477
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9500	0.0500	0.5090	1.036	6.602	0.817	0.003	0.618	0.127	8.60	5	15	26	1.822
	200	0.9000	0.0316	0.5631	1.061	9.598	0.632	0.004	0.448	0.086	9.80	5	19	43	1.643
	300	0.8603	0.0270	0.6165	1.084	11.800	0.483	0.003	0.335	0.061	11.44	5	24	52	1.495
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9325	0.0337	0.4215	1.032	6.632	0.768	0.018	0.508	0.194	6.96	4	11	20	1.797
	200	0.8883	0.0198	0.4591	1.052	8.801	0.615	0.018	0.373	0.131	7.44	4	14	33	1.656
	300	0.8578	0.0165	0.5051	1.069	10.297	0.511	0.012	0.298	0.109	8.33	4	17	41	1.544
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9194	0.0608	0.5614	1.053	8.616	0.689	0.001	0.557	0.087	9.51	5	16	29	1.679
	200	0.8495	0.0394	0.6261	1.089	12.062	0.429	0.002	0.324	0.051	11.11	5	22	45	1.419
	300	0.8099	0.0341	0.6792	1.113	14.154	0.278	0.003	0.201	0.031	13.34	5	28	58	1.268
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9170	0.0498	0.5162	1.049	8.257	0.690	0.003	0.519	0.115	8.45	5	15	26	1.689
	200	0.8500	0.0315	0.5750	1.082	11.476	0.441	0.003	0.319	0.072	9.58	5	19	43	1.440
	300	0.8118	0.0270	0.6282	1.102	13.275	0.303	0.003	0.204	0.045	11.24	5	24	52	1.299
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9006	0.0335	0.4287	1.044	8.184	0.648	0.016	0.427	0.172	6.82	4	11	20	1.669
	200	0.8478	0.0198	0.4688	1.068	10.344	0.471	0.017	0.287	0.115	7.27	4	14	32	1.493
	300	0.8119	0.0165	0.5162	1.085	11.761	0.344	0.009	0.196	0.084	8.13	4	17	40	1.360

Notes: See notes to Table 46.

Table 279: MC findings for DGPIV(a)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0658	0.5768	1.013	3.541	0.999	0.001	0.971	0.077	10.31	6	16.5	33	1.965
	200	0.9958	0.0445	0.6402	1.021	5.342	0.983	0.000	0.955	0.034	12.70	7	22	39	1.967
	300	0.9875	0.0353	0.6737	1.027	7.548	0.950	0.000	0.913	0.029	14.39	7	26	48	1.937
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0545	0.5328	1.011	3.302	0.998	0.001	0.965	0.131	9.23	6	15	30	1.972
	200	0.9960	0.0360	0.5917	1.017	4.797	0.984	0.001	0.941	0.070	11.04	6	19	35	1.971
	300	0.9896	0.0282	0.6224	1.022	6.536	0.959	0.000	0.904	0.058	12.31	6	23	42	1.948
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0378	0.4487	1.007	2.799	0.997	0.001	0.929	0.295	7.62	6	11	22	1.986
	200	0.9964	0.0238	0.4975	1.012	3.980	0.986	0.001	0.904	0.188	8.65	6	14	27	1.980
	300	0.9908	0.0179	0.5208	1.015	5.387	0.963	0.001	0.864	0.168	9.27	6	16	31	1.961
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9980	0.0653	0.5754	1.013	4.045	0.992	0.001	0.964	0.080	10.26	6	16	33	1.955
	200	0.9871	0.0443	0.6409	1.023	6.976	0.949	0.000	0.921	0.035	12.63	7	22	39	1.930
	300	0.9694	0.0352	0.6767	1.034	10.006	0.878	0.000	0.843	0.029	14.30	7	26	48	1.861
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9984	0.0542	0.5315	1.011	3.575	0.994	0.001	0.961	0.133	9.20	6	15	30	1.967
	200	0.9885	0.0359	0.5924	1.020	6.396	0.954	0.001	0.912	0.071	10.99	6	19	34	1.940
	300	0.9736	0.0281	0.6251	1.027	8.930	0.895	0.000	0.843	0.060	12.23	6	23	42	1.883
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9979	0.0376	0.4480	1.008	3.206	0.992	0.001	0.924	0.301	7.60	6	11	22	1.980
	200	0.9903	0.0237	0.4983	1.014	5.382	0.962	0.001	0.882	0.187	8.62	6	14	26	1.955
	300	0.9808	0.0179	0.5226	1.018	7.187	0.923	0.001	0.827	0.170	9.22	6	16	31	1.920

Notes: See notes to Table 46.

Table 280: MC findings for DGPIV(b)

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7690	0.1836	0.8055	1.664	19.578	0.245	0.002	20.70	6	38	56	1.142
	200	0.7334	0.1556	0.8697	2.450	71.926	0.154	0.001	33.44	7	64	86	1.065
	300	0.7246	0.1651	0.8993	4.648	669.524	0.143	0.001	51.76	8.5	91	280	1.432
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7541	0.1602	0.7799	1.580	16.738	0.210	0.002	18.39	5	34.5	51	1.125
	200	0.7213	0.1356	0.8483	2.216	54.097	0.135	0.000	29.46	6	58	80	1.055
	300	0.7049	0.1361	0.8816	3.869	748.927	0.113	0.002	43.10	7	83.5	294	1.237
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7208	0.1178	0.7102	1.467	12.583	0.150	0.004	14.19	3	29	45	1.104
	200	0.6905	0.0996	0.7931	1.847	30.714	0.101	0.001	22.28	4	48	70	1.045
	300	0.6713	0.0937	0.8350	2.606	100.765	0.072	0.001	30.41	4	68	284	1.043
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7551	0.1830	0.8066	1.660	19.313	0.197	0.002	20.59	5	37.5	56	1.060
	200	0.7270	0.1555	0.8699	2.434	70.074	0.132	0.001	33.38	7	64	86	1.019
	300	0.7208	0.1635	0.8996	4.575	763.339	0.134	0.001	51.28	8	91	290	1.349
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7401	0.1598	0.7815	1.581	16.562	0.165	0.002	18.30	5	34	51	1.060
	200	0.7154	0.1355	0.8487	2.195	52.921	0.115	0.000	29.41	6	58	80	1.017
	300	0.7013	0.1340	0.8818	4.009	763.831	0.103	0.001	42.47	7	83.5	273	1.167
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7095	0.1176	0.7110	1.464	12.464	0.115	0.002	14.13	3	29	45	1.053
	200	0.6855	0.0995	0.7931	1.846	30.600	0.088	0.000	22.24	4	48	70	1.017
	300	0.6684	0.0936	0.8350	2.570	96.291	0.065	0.001	30.38	4	68	264	1.029

Notes: See notes to Table 55.

Table 281: MC findings for DGPIV(b)

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9925	0.2166	0.8247	1.096	10.500	0.971	0.000	24.77	14	36	48	1.784
	200	0.9551	0.1863	0.8942	1.237	26.519	0.824	0.000	40.34	22	60.5	82	1.636
	300	0.9138	0.1718	0.9234	1.405	43.459	0.657	0.000	54.52	27	83	111	1.495
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9920	0.1913	0.8034	1.083	9.455	0.970	0.000	22.33	12	34	45	1.799
	200	0.9555	0.1648	0.8799	1.205	23.066	0.827	0.000	36.12	18	56	76	1.666
	300	0.9129	0.1520	0.9126	1.348	37.177	0.656	0.000	48.64	23	77	104	1.512
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9906	0.1449	0.7491	1.062	7.689	0.964	0.001	17.88	9	28	41	1.850
	200	0.9560	0.1242	0.8410	1.146	17.401	0.833	0.000	28.17	13	46	62	1.711
	300	0.9150	0.1151	0.8819	1.250	27.543	0.672	0.000	37.73	16	63	91	1.569
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9824	0.2151	0.8246	1.101	11.735	0.931	0.000	24.58	14	36	48	1.739
	200	0.9269	0.1859	0.8965	1.255	28.941	0.711	0.000	40.14	21	60	82	1.521
	300	0.8774	0.1717	0.9260	1.429	46.009	0.511	0.000	54.34	27	83	111	1.345
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9828	0.1902	0.8034	1.088	10.623	0.933	0.000	22.19	12	34	45	1.762
	200	0.9294	0.1645	0.8822	1.220	25.314	0.723	0.000	35.96	18	55.5	76	1.557
	300	0.8779	0.1519	0.9152	1.372	39.773	0.516	0.000	48.47	23	76	104	1.370
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9799	0.1442	0.7496	1.068	9.023	0.922	0.001	17.76	9	28	41	1.807
	200	0.9304	0.1240	0.8438	1.164	19.866	0.731	0.000	28.03	13	46	62	1.606
	300	0.8819	0.1150	0.8850	1.274	29.831	0.540	0.000	37.57	15	63	91	1.433

Notes: See notes to Table 55.

Table 282: MC findings for DGPIV(b)

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.2225	0.8307	1.042	7.785	1.000	0.000	25.36	15	36	49	1.795
	200	0.9998	0.1895	0.8962	1.089	15.351	0.999	0.000	41.15	25.5	58	74	1.804
	300	0.9970	0.1753	0.9237	1.149	26.057	0.988	0.000	55.89	34.5	79	104	1.813
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1973	0.8113	1.036	6.823	1.000	0.000	22.94	13	33	45	1.826
	200	0.9998	0.1679	0.8829	1.075	12.829	0.999	0.000	36.90	22	54	71	1.823
	300	0.9976	0.1553	0.9136	1.123	21.638	0.991	0.000	49.97	30	72	98	1.833
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1510	0.7618	1.026	5.160	1.000	0.000	18.49	10	28	39	1.870
	200	0.9998	0.1275	0.8477	1.053	9.181	0.999	0.000	29.00	16	44	58	1.861
	300	0.9984	0.1181	0.8862	1.085	14.707	0.994	0.000	38.96	21	59	83	1.871
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.2203	0.8289	1.041	7.503	1.000	0.000	25.15	15	36	49	1.791
	200	0.9989	0.1887	0.8957	1.087	15.256	0.996	0.000	40.99	25	58	74	1.800
	300	0.9919	0.1750	0.9237	1.150	27.194	0.968	0.000	55.77	34	79	103	1.790
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.1954	0.8094	1.035	6.647	1.000	0.000	22.76	13	33	45	1.825
	200	0.9990	0.1673	0.8824	1.074	12.859	0.996	0.000	36.78	22	54	71	1.819
	300	0.9939	0.1551	0.9136	1.124	22.640	0.976	0.000	49.88	29	72	97	1.817
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1498	0.7600	1.026	5.014	1.000	0.000	18.38	10	28	39	1.870
	200	0.9993	0.1271	0.8470	1.052	9.252	0.997	0.000	28.91	16	44	58	1.858
	300	0.9955	0.1180	0.8861	1.086	15.721	0.982	0.000	38.90	21	59	82	1.860

Notes: See notes to Table 55.

Table 283: MC findings for DGPIV(b)

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6630	0.1193	0.7114	1.392	11.312	0.083	0.001	14.11	2	31	47	1.033
	200	0.6471	0.0976	0.7790	1.800	33.329	0.086	0.001	21.72	2	52	86	1.032
	300	0.6294	0.0913	0.8164	3.004	550.016	0.064	0.001	29.55	2	70	277	1.079
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.6395	0.1003	0.6678	1.338	9.506	0.064	0.000	12.19	2	28	46	1.023
	200	0.6258	0.0824	0.7403	1.653	25.737	0.068	0.001	18.65	2	47	77	1.022
	300	0.6070	0.0760	0.7805	2.202	88.765	0.052	0.000	24.92	2	63.5	300	1.039
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.5928	0.0679	0.5634	1.258	6.636	0.045	0.002	8.89	1	23	40	1.014
	200	0.5784	0.0557	0.6452	1.422	14.072	0.046	0.002	13.23	1	37	68	1.009
	300	0.5581	0.0503	0.6897	1.690	30.748	0.033	0.000	17.12	1	50	86	1.007
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6600	0.1191	0.7109	1.389	11.215	0.076	0.001	14.07	2	31	47	1.006
	200	0.6448	0.0975	0.7784	1.792	32.966	0.078	0.000	21.69	2	52	86	1.007
	300	0.6288	0.0901	0.8161	3.138	777.788	0.062	0.001	29.18	2	70	277	1.037
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6379	0.1001	0.6671	1.336	9.426	0.060	0.000	12.17	2	28	46	1.006
	200	0.6238	0.0823	0.7397	1.649	25.572	0.062	0.001	18.63	2	47	77	1.003
	300	0.6060	0.0753	0.7801	2.163	87.616	0.049	0.000	24.72	2	63.5	284	1.017
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.5915	0.0678	0.5628	1.257	6.617	0.041	0.001	8.88	1	23	40	1.004
	200	0.5774	0.0557	0.6453	1.421	14.059	0.043	0.001	13.22	1	37	68	1.003
	300	0.5576	0.0503	0.6895	1.688	30.732	0.032	0.000	17.11	1	50	86	1.000

Notes: See notes to Table 55.

Table 284: MC findings for DGPIV(b)

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9150	0.1477	0.7612	1.086	9.456	0.667	0.002	17.84	8	29	40	1.537
	200	0.8563	0.1219	0.8479	1.164	17.463	0.436	0.000	27.31	11	47	65	1.337
	300	0.8156	0.1121	0.8866	1.244	25.803	0.280	0.000	36.43	14	63	93	1.185
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9058	0.1256	0.7274	1.078	8.700	0.635	0.004	15.68	7	26	38	1.521
	200	0.8516	0.1038	0.8226	1.144	15.310	0.422	0.001	23.76	9.5	42	63	1.343
	300	0.8126	0.0958	0.8661	1.210	21.914	0.274	0.001	31.61	11	57	85	1.188
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8895	0.0876	0.6437	1.066	7.720	0.583	0.014	11.96	5	21	32	1.495
	200	0.8371	0.0722	0.7556	1.111	12.073	0.376	0.003	17.50	6	33	47	1.324
	300	0.8046	0.0673	0.8097	1.155	16.195	0.255	0.002	23.14	7	45	69	1.199
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8766	0.1473	0.7680	1.097	10.465	0.516	0.002	17.65	8	29	40	1.379
	200	0.8174	0.1218	0.8536	1.176	18.383	0.282	0.000	27.13	11	46.5	65	1.176
	300	0.7923	0.1120	0.8897	1.249	26.063	0.187	0.000	36.32	14	63	93	1.080
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8688	0.1253	0.7341	1.090	9.735	0.489	0.004	15.51	7	26	38	1.370
	200	0.8143	0.1038	0.8289	1.155	16.124	0.275	0.001	23.60	9	42	63	1.189
	300	0.7898	0.0957	0.8694	1.216	22.211	0.183	0.001	31.50	11	57	85	1.088
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8528	0.0875	0.6517	1.077	8.624	0.436	0.011	11.81	5	21	32	1.346
	200	0.8050	0.0722	0.7616	1.121	12.820	0.249	0.002	17.36	6	33	47	1.193
	300	0.7800	0.0673	0.8143	1.162	16.628	0.157	0.001	23.03	7	45	69	1.098

Notes: See notes to Table 55.

Table 285: MC findings for DGPIV(b)

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9948	0.1560	0.7671	1.030	6.004	0.979	0.000	18.95	10	29	45	1.828
	200	0.9734	0.1294	0.8491	1.064	12.200	0.894	0.000	29.26	15	46	66	1.765
	300	0.9474	0.1141	0.8835	1.096	18.340	0.790	0.000	37.57	18	60	81	1.674
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9931	0.1345	0.7370	1.026	5.491	0.973	0.000	16.89	9	27	44	1.845
	200	0.9714	0.1108	0.8252	1.055	10.847	0.886	0.000	25.60	13	41	61	1.777
	300	0.9481	0.0979	0.8641	1.081	15.898	0.793	0.000	32.77	15	54	75	1.693
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9906	0.0965	0.6596	1.019	4.737	0.963	0.003	13.23	7	22	40	1.874
	200	0.9676	0.0781	0.7616	1.040	8.874	0.872	0.001	19.18	9	32	48	1.794
	300	0.9486	0.0688	0.8096	1.058	12.254	0.795	0.001	24.17	10	42	62	1.725
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9869	0.1552	0.7674	1.031	6.690	0.948	0.000	18.85	10	29	45	1.794
	200	0.9476	0.1292	0.8519	1.071	14.097	0.791	0.000	29.12	15	46	66	1.661
	300	0.9064	0.1140	0.8875	1.109	20.870	0.626	0.000	37.36	18	60	81	1.505
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9843	0.1340	0.7378	1.028	6.349	0.938	0.000	16.80	9	27	44	1.808
	200	0.9458	0.1106	0.8284	1.062	12.775	0.784	0.000	25.47	12.5	41	61	1.673
	300	0.9074	0.0979	0.8686	1.093	18.460	0.630	0.000	32.59	15	54	74	1.527
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9801	0.0963	0.6613	1.021	5.823	0.922	0.003	13.16	7	22	40	1.831
	200	0.9439	0.0781	0.7655	1.048	10.590	0.777	0.001	19.07	9	32	48	1.699
	300	0.9121	0.0688	0.8149	1.069	14.474	0.649	0.000	24.01	10	42	61	1.578

Notes: See notes to Table 55.

Table 286: MC findings for DGPIV(b)

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4981	0.0570	0.5357	1.182	5.302	0.040	0.000	7.46	0	21	42	1.016
	200	0.4461	0.0436	0.6159	1.325	12.002	0.018	0.000	10.34	0	34	70	1.011
	300	0.4478	0.0402	0.6674	1.551	33.398	0.025	0.000	13.70	0	45	254	1.020
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4645	0.0446	0.4729	1.156	4.414	0.032	0.001	6.14	0	18	39	1.010
	200	0.4129	0.0343	0.5483	1.261	9.493	0.014	0.000	8.37	0	29	63	1.005
	300	0.4154	0.0316	0.6121	1.615	154.448	0.018	0.000	11.02	0	38	98	1.010
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3851	0.0261	0.3502	1.128	3.051	0.014	0.000	4.04	0	13	33	1.004
	200	0.3381	0.0199	0.4176	1.185	5.250	0.006	0.000	5.24	0	21	55	1.002
	300	0.3491	0.0184	0.4838	1.260	10.447	0.010	0.000	6.85	0	27	79	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4979	0.0568	0.5345	1.179	5.219	0.039	0.000	7.45	0	21	42	1.004
	200	0.4460	0.0436	0.6154	1.321	11.851	0.018	0.000	10.33	0	34	70	1.001
	300	0.4478	0.0402	0.6669	1.538	32.887	0.025	0.000	13.68	0	44.5	254	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4639	0.0445	0.4725	1.154	4.375	0.031	0.001	6.13	0	18	39	1.002
	200	0.4129	0.0343	0.5481	1.260	9.454	0.014	0.000	8.37	0	29	63	1.001
	300	0.4154	0.0318	0.6120	1.419	22.589	0.018	0.000	11.09	0	38	256	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3850	0.0260	0.3492	1.128	3.043	0.014	0.000	4.04	0	13	33	1.001
	200	0.3381	0.0199	0.4174	1.185	5.250	0.006	0.000	5.24	0	21	55	1.001
	300	0.3490	0.0184	0.4838	1.259	10.439	0.010	0.000	6.85	0	27	79	1.001

Notes: See notes to Table 55.

Table 287: MC findings for DGPIV(b)

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7948	0.0799	0.6342	1.056	5.849	0.248	0.006	10.85	4	20	38	1.194
	200	0.7538	0.0606	0.7158	1.082	8.496	0.118	0.002	14.90	4	31	52	1.074
	300	0.7476	0.0528	0.7655	1.106	10.828	0.089	0.002	18.62	5	41	78	1.049
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7796	0.0646	0.5823	1.051	5.473	0.209	0.008	9.32	3	18	37	1.170
	200	0.7426	0.0488	0.6644	1.072	7.550	0.099	0.003	12.54	3	27	49	1.065
	300	0.7374	0.0425	0.7186	1.092	9.316	0.071	0.002	15.54	4	36	68	1.040
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7528	0.0401	0.4578	1.043	4.893	0.146	0.019	6.87	3	14	33	1.118
	200	0.7216	0.0298	0.5394	1.057	6.132	0.068	0.007	8.72	2	19	41	1.049
	300	0.7163	0.0258	0.5932	1.068	7.070	0.050	0.004	10.50	3	25	54	1.033
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7678	0.0798	0.6397	1.059	6.044	0.143	0.003	10.73	4	20	38	1.080
	200	0.7426	0.0606	0.7180	1.083	8.520	0.074	0.001	14.84	4	31	52	1.023
	300	0.7401	0.0528	0.7670	1.106	10.773	0.059	0.001	18.58	5	41	78	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7563	0.0645	0.5872	1.053	5.631	0.119	0.004	9.22	3	18	37	1.074
	200	0.7326	0.0488	0.6664	1.073	7.582	0.060	0.001	12.50	3	27	49	1.021
	300	0.7308	0.0425	0.7200	1.092	9.255	0.046	0.001	15.51	4	36	68	1.009
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7370	0.0401	0.4612	1.045	5.004	0.084	0.011	6.80	3	14	33	1.055
	200	0.7135	0.0298	0.5410	1.058	6.185	0.036	0.003	8.69	2	19	41	1.016
	300	0.7105	0.0258	0.5945	1.069	7.093	0.028	0.002	10.48	3	25	54	1.008

Notes: See notes to Table 55.

Table 288: MC findings for DGPIV(b)

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9046	0.0865	0.6503	1.029	6.021	0.621	0.004	11.93	6	20	29	1.553
	200	0.8556	0.0653	0.7399	1.045	8.725	0.427	0.002	16.22	6	29	55	1.379
	300	0.8308	0.0555	0.7851	1.060	10.823	0.330	0.002	19.77	7	37	60	1.275
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8945	0.0711	0.6025	1.027	5.816	0.582	0.011	10.40	5	18	27	1.529
	200	0.8480	0.0530	0.6949	1.041	8.113	0.402	0.004	13.78	5	25	51	1.362
	300	0.8238	0.0448	0.7426	1.053	9.824	0.307	0.003	16.57	6	31	54	1.264
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8720	0.0445	0.4856	1.023	5.538	0.500	0.032	7.76	4	13	25	1.475
	200	0.8353	0.0330	0.5779	1.034	7.205	0.355	0.016	9.81	4	19	38	1.332
	300	0.8108	0.0276	0.6316	1.043	8.401	0.265	0.012	11.41	4	22	45	1.238
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8598	0.0863	0.6601	1.034	6.910	0.441	0.004	11.73	6	20	29	1.370
	200	0.8123	0.0652	0.7486	1.051	9.496	0.254	0.001	16.03	6	29	55	1.201
	300	0.7960	0.0555	0.7916	1.064	11.475	0.191	0.002	19.62	7	37	60	1.133
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8511	0.0709	0.6124	1.032	6.641	0.409	0.007	10.21	5	18	27	1.352
	200	0.8068	0.0529	0.7040	1.046	8.843	0.237	0.002	13.60	5	25	51	1.194
	300	0.7910	0.0448	0.7492	1.057	10.431	0.177	0.002	16.43	6	31	54	1.130
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8333	0.0444	0.4945	1.028	6.224	0.346	0.027	7.60	4	13	24	1.318
	200	0.7953	0.0330	0.5873	1.039	7.852	0.196	0.010	9.65	4	19	38	1.171
	300	0.7816	0.0276	0.6383	1.047	8.862	0.150	0.007	11.29	4	22	45	1.120

Notes: See notes to Table 55.

5.5 Findings for designs with nonzero slopes (all variables are signals)

Table 289: MC findings for DGPV

$T = 100$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3893	0.1785	0.7392	1.337	4.028	0.000	20.17	4	38	54	1.025
	200	0.3616	0.1534	0.8375	2.083	18.770	0.001	32.97	6	65	188	1.028
	300	0.3627	0.1627	0.8760	4.079	300.736	0.012	51.01	7	90	296	1.371
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3672	0.1549	0.7143	1.270	3.324	0.000	17.83	4	34	49	1.013
	200	0.3419	0.1336	0.8171	1.873	12.221	0.001	29.02	5	60	183	1.023
	300	0.3366	0.1334	0.8576	3.235	94.366	0.007	42.25	6	82	285	1.184
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3246	0.1136	0.6518	1.148	2.121	0.000	13.68	2	29	43	1.009
	200	0.3064	0.0981	0.7612	1.550	6.845	0.000	21.91	3	50	83	1.008
	300	0.2975	0.0933	0.8088	3.248	182.205	0.001	30.23	3	68	259	1.038
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3885	0.1784	0.7394	1.334	3.984	0.000	20.15	4	38	54	1.007
	200	0.3614	0.1533	0.8368	2.071	18.551	0.001	32.95	6	65	188	1.010
	300	0.3614	0.1606	0.8760	3.971	299.303	0.013	50.38	7	90	296	1.299
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3669	0.1548	0.7142	1.268	3.261	0.000	17.81	4	34	49	1.003
	200	0.3417	0.1336	0.8165	1.866	12.091	0.001	29.00	5	59.5	183	1.009
	300	0.3353	0.1320	0.8576	3.217	86.174	0.006	41.83	6	82	285	1.139
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3241	0.1135	0.6518	1.148	2.116	0.000	13.67	2	29	43	1.002
	200	0.3062	0.0981	0.7614	1.530	6.621	0.000	21.91	3	50	83	1.002
	300	0.2972	0.0933	0.8091	3.247	182.224	0.001	30.23	3	68	275	1.032

Notes: See notes to Table 91.

Table 290: MC findings for DGPV

$T = 300$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4827	0.2039	0.7602	1.067	2.824	0.002	23.46	12	35.5	50	1.015
	200	0.4663	0.1773	0.8574	1.174	6.410	0.002	38.65	19	60	81	1.014
	300	0.4543	0.1638	0.8964	1.310	11.180	0.002	52.33	25	81	108	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4617	0.1788	0.7409	1.055	2.444	0.002	20.99	10	33	50	1.011
	200	0.4472	0.1557	0.8438	1.143	5.301	0.001	34.34	16	55	76	1.007
	300	0.4364	0.1445	0.8864	1.257	9.128	0.001	46.57	21	74	101	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4222	0.1334	0.6906	1.036	1.815	0.001	16.51	7	28	43	1.006
	200	0.4083	0.1164	0.8082	1.093	3.551	0.001	26.48	11	45	63	1.004
	300	0.4017	0.1081	0.8583	1.164	5.962	0.000	35.65	14	61	85	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4821	0.2038	0.7604	1.067	2.795	0.002	23.44	12	35	50	1.003
	200	0.4661	0.1773	0.8575	1.173	6.345	0.002	38.63	19	60	81	1.002
	300	0.4541	0.1637	0.8965	1.309	11.129	0.002	52.32	25	81	108	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4613	0.1787	0.7411	1.055	2.421	0.002	20.98	10	33	50	1.002
	200	0.4470	0.1556	0.8438	1.143	5.278	0.001	34.33	16	55	76	1.000
	300	0.4361	0.1445	0.8866	1.256	9.100	0.001	46.56	21	74	101	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4219	0.1333	0.6908	1.036	1.811	0.001	16.51	7	28	43	1.002
	200	0.4081	0.1164	0.8083	1.093	3.547	0.001	26.48	11	45	63	1.001
	300	0.4016	0.1081	0.8583	1.164	5.961	0.000	35.65	14	61	85	1.002

Notes: See notes to Table 91.

Table 291: MC findings for DGPV

$T = 500$, $R^2 = 70\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5310	0.2081	0.7490	1.031	2.561	0.002	24.37	14	35	47	1.016
	200	0.5039	0.1826	0.8546	1.081	5.164	0.001	40.05	24	57	79	1.010
	300	0.4955	0.1673	0.8935	1.132	8.322	0.002	53.80	31	78	107	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5111	0.1832	0.7296	1.027	2.262	0.001	21.93	12	32	42	1.013
	200	0.4866	0.1608	0.8412	1.068	4.389	0.001	35.74	20	53	74	1.008
	300	0.4786	0.1473	0.8832	1.108	6.891	0.002	47.83	27	71	101	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4723	0.1376	0.6803	1.018	1.762	0.001	17.44	9	27	37	1.008
	200	0.4503	0.1207	0.8071	1.047	3.141	0.000	27.77	15	43	65	1.004
	300	0.4437	0.1108	0.8558	1.073	4.741	0.000	36.89	18	59	79	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5305	0.2081	0.7492	1.031	2.539	0.002	24.35	14	35	47	1.004
	200	0.5035	0.1825	0.8547	1.080	5.147	0.001	40.04	24	57	79	1.002
	300	0.4953	0.1673	0.8936	1.131	8.283	0.002	53.79	31	78	107	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5105	0.1831	0.7298	1.026	2.255	0.001	21.92	12	32	42	1.004
	200	0.4863	0.1608	0.8413	1.068	4.374	0.001	35.73	20	53	74	1.002
	300	0.4784	0.1473	0.8832	1.108	6.857	0.002	47.82	27	71	101	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4718	0.1376	0.6805	1.018	1.756	0.001	17.43	9	27	37	1.003
	200	0.4501	0.1207	0.8072	1.047	3.139	0.000	27.77	15	43	65	1.002
	300	0.4435	0.1108	0.8559	1.073	4.724	0.000	36.89	18	59	79	1.000

Notes: See notes to Table 91.

Table 292: MC findings for DGPV

$T = 100$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3142	0.1153	0.6492	1.161	2.403	0.000	13.72	2	31	48	1.014
	200	0.2951	0.0965	0.7436	1.560	9.373	0.000	21.48	2	52	82	1.013
	300	0.2858	0.0942	0.8074	2.503	66.957	0.002	30.36	2.5	71	265	1.081
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2930	0.0964	0.6076	1.110	2.001	0.000	11.81	2	28	45	1.009
	200	0.2774	0.0813	0.7063	1.408	6.231	0.000	18.42	2	47	77	1.006
	300	0.2686	0.0774	0.7712	1.991	29.433	0.001	25.31	2	64	258	1.028
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2530	0.0645	0.5164	1.023	1.259	0.000	8.52	1	22	37	1.003
	200	0.2404	0.0545	0.6071	1.200	3.336	0.000	12.95	1	36	66	1.001
	300	0.2349	0.0522	0.6847	1.464	9.696	0.000	17.66	1	51	265	1.006
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3140	0.1151	0.6483	1.156	2.338	0.000	13.70	2	31	48	1.003
	200	0.2950	0.0964	0.7435	1.552	8.864	0.000	21.47	2	52	82	1.002
	300	0.2861	0.0944	0.8073	2.414	64.148	0.002	30.44	2.5	71	269	1.076
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2928	0.0964	0.6072	1.108	1.947	0.000	11.80	2	28	45	1.003
	200	0.2773	0.0813	0.7060	1.406	6.218	0.000	18.41	2	47	77	1.000
	300	0.2688	0.0779	0.7713	1.932	21.491	0.001	25.46	2	64	258	1.029
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2529	0.0645	0.5165	1.022	1.226	0.000	8.52	1	22	37	1.001
	200	0.2404	0.0545	0.6067	1.200	3.336	0.000	12.95	1	36	66	1.000
	300	0.2349	0.0522	0.6847	1.463	9.692	0.000	17.66	1	51	265	1.004

Notes: See notes to Table 91.

Table 293: MC findings for DGPV

$T = 300$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4236	0.1403	0.6983	1.035	1.840	0.001	17.15	7	29	43	1.007
	200	0.4045	0.1180	0.8090	1.090	3.650	0.001	26.75	10	46	71	1.004
	300	0.3964	0.1080	0.8561	1.159	5.872	0.001	35.56	12	63	88	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4035	0.1185	0.6670	1.027	1.565	0.001	14.98	6	26	41	1.006
	200	0.3878	0.1004	0.7841	1.069	2.981	0.000	23.24	8	41	67	1.002
	300	0.3793	0.0918	0.8362	1.126	4.734	0.001	30.71	10	57	80	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3631	0.0819	0.5921	1.013	1.123	0.001	11.29	4	21	30	1.002
	200	0.3532	0.0689	0.7181	1.040	1.981	0.000	16.91	5	32	54	1.000
	300	0.3457	0.0636	0.7818	1.071	2.928	0.000	22.18	6	44	63	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4234	0.1402	0.6983	1.035	1.828	0.001	17.14	7	29	43	1.001
	200	0.4045	0.1180	0.8089	1.090	3.635	0.001	26.75	10	46	71	1.000
	300	0.3964	0.1079	0.8561	1.159	5.856	0.001	35.56	12	63	88	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4034	0.1184	0.6670	1.026	1.550	0.001	14.98	6	26	41	1.001
	200	0.3878	0.1004	0.7841	1.069	2.971	0.000	23.24	8	41	67	1.000
	300	0.3793	0.0918	0.8362	1.125	4.682	0.001	30.71	10	57	80	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3631	0.0819	0.5920	1.013	1.122	0.001	11.29	4	21	30	1.000
	200	0.3532	0.0689	0.7181	1.040	1.981	0.000	16.91	5	32	54	1.000
	300	0.3457	0.0636	0.7817	1.071	2.928	0.000	22.18	6	44	63	1.000

Notes: See notes to Table 91.

Table 294: MC findings for DGPV

$T = 500$, $R^2 = 50\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4738	0.1449	0.6907	1.018	1.776	0.003	18.11	9	28	43	1.012
	200	0.4502	0.1235	0.8082	1.045	3.126	0.001	28.30	13.5	45	67	1.007
	300	0.4434	0.1119	0.8554	1.071	4.699	0.001	37.23	18	60	90	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4554	0.1234	0.6602	1.014	1.552	0.001	15.99	8	26	39	1.006
	200	0.4328	0.1057	0.7855	1.035	2.631	0.001	24.73	11	41	63	1.003
	300	0.4261	0.0954	0.8371	1.057	3.841	0.001	32.27	14	53.5	79	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4163	0.0852	0.5818	1.008	1.176	0.000	12.16	5	20	32	1.002
	200	0.3991	0.0733	0.7232	1.021	1.842	0.001	18.25	7	32	53	1.001
	300	0.3934	0.0667	0.7871	1.034	2.566	0.000	23.62	9	42	60	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4735	0.1448	0.6907	1.018	1.763	0.003	18.10	9	28	43	1.002
	200	0.4501	0.1235	0.8082	1.044	3.098	0.001	28.29	13.5	45	67	1.000
	300	0.4433	0.1119	0.8554	1.071	4.675	0.001	37.22	18	60	90	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4551	0.1233	0.6602	1.014	1.545	0.001	15.98	8	26	39	1.001
	200	0.4327	0.1057	0.7855	1.035	2.621	0.001	24.73	11	41	63	1.000
	300	0.4261	0.0954	0.8371	1.056	3.827	0.001	32.26	14	53.5	79	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4162	0.0852	0.5818	1.008	1.172	0.000	12.16	5	20	32	1.000
	200	0.3991	0.0733	0.7232	1.021	1.840	0.001	18.25	7	32	53	1.000
	300	0.3934	0.0667	0.7871	1.034	2.565	0.000	23.62	9	42	60	1.000

Notes: See notes to Table 91.

Table 295: MC findings for DGPV

$T = 100$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2155	0.0549	0.4891	1.002	1.167	0.001	7.26	1	21	39	1.014
	200	0.1960	0.0448	0.5823	1.138	2.673	0.000	10.62	0	34	64	1.010
	300	0.1877	0.0385	0.6257	1.341	9.421	0.000	13.18	0	46	248	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.1960	0.0428	0.4313	0.975	0.837	0.001	5.96	0	18	36	1.006
	200	0.1776	0.0353	0.5254	1.074	1.942	0.000	8.62	0	30	58	1.003
	300	0.1700	0.0303	0.5601	1.276	16.704	0.000	10.63	0	39	94	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.1605	0.0244	0.3058	0.947	0.578	0.000	3.94	0	13	33	1.001
	200	0.1448	0.0208	0.4010	1.000	1.042	0.000	5.52	0	21	45	1.000
	300	0.1381	0.0178	0.4320	1.068	3.451	0.000	6.67	0	27	80	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2155	0.0548	0.4884	0.998	1.140	0.001	7.24	1	21	39	1.002
	200	0.1959	0.0447	0.5819	1.133	2.566	0.000	10.61	0	34	64	1.001
	300	0.1877	0.0384	0.6253	1.341	9.409	0.000	13.17	0	46	248	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.1960	0.0427	0.4308	0.974	0.830	0.001	5.96	0	18	36	1.001
	200	0.1776	0.0353	0.5253	1.074	1.940	0.000	8.62	0	30	58	1.000
	300	0.1700	0.0303	0.5600	1.277	16.663	0.000	10.63	0	39	94	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.1605	0.0244	0.3056	0.947	0.578	0.000	3.94	0	13	33	1.000
	200	0.1448	0.0208	0.4010	1.000	1.042	0.000	5.52	0	21	45	1.000
	300	0.1381	0.0178	0.4318	1.068	3.451	0.000	6.67	0	27	80	1.000

Notes: See notes to Table 91.

Table 296: MC findings for DGPV

$T = 300$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3415	0.0728	0.5622	1.009	1.013	0.000	10.24	3	20	32	1.004
	200	0.3233	0.0584	0.6776	1.031	1.718	0.000	14.60	3	31	52	1.004
	300	0.3097	0.0505	0.7401	1.053	2.470	0.000	17.99	4	39	85	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3228	0.0576	0.5069	1.003	0.860	0.000	8.68	3	18	28	1.002
	200	0.3072	0.0465	0.6270	1.020	1.400	0.000	12.16	3	27	51	1.004
	300	0.2962	0.0403	0.6930	1.037	1.949	0.000	14.90	3	33	79	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2867	0.0348	0.3912	0.996	0.634	0.000	6.25	2	14	24	1.001
	200	0.2745	0.0279	0.5081	1.005	0.921	0.000	8.30	2	19	40	1.000
	300	0.2677	0.0241	0.5727	1.015	1.220	0.000	9.90	2	24	67	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3414	0.0728	0.5623	1.008	1.009	0.000	10.23	3	20	32	1.000
	200	0.3233	0.0584	0.6774	1.031	1.709	0.000	14.59	3	31	52	1.001
	300	0.3097	0.0504	0.7400	1.053	2.465	0.000	17.99	4	39	85	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3227	0.0576	0.5069	1.003	0.857	0.000	8.68	3	18	28	1.000
	200	0.3072	0.0464	0.6270	1.020	1.392	0.000	12.16	3	27	51	1.001
	300	0.2962	0.0403	0.6930	1.037	1.942	0.000	14.90	3	33	79	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2867	0.0348	0.3912	0.996	0.632	0.000	6.25	2	14	24	1.000
	200	0.2745	0.0279	0.5081	1.005	0.921	0.000	8.30	2	19	40	1.000
	300	0.2677	0.0241	0.5727	1.015	1.220	0.000	9.90	2	24	67	1.000

Notes: See notes to Table 91.

Table 297: MC findings for DGPV

$T = 500$, $R^2 = 30\%$, G-SC (Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3909	0.0769	0.5673	1.006	1.013	0.000	11.15	4.5	20	32	1.005
	200	0.3671	0.0604	0.6877	1.015	1.590	0.001	15.46	5	28	44	1.004
	300	0.3565	0.0529	0.7511	1.026	2.090	0.000	19.21	6	37	68	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3724	0.0613	0.5154	1.003	0.872	0.000	9.55	4	17	31	1.002
	200	0.3510	0.0482	0.6407	1.011	1.335	0.001	12.98	4	25	40	1.002
	300	0.3410	0.0424	0.7095	1.019	1.728	0.000	16.02	5	32	65	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3380	0.0367	0.3966	0.999	0.670	0.000	6.99	3	13	21	1.001
	200	0.3213	0.0287	0.5176	1.004	0.953	0.000	8.95	3	18	30	1.000
	300	0.3131	0.0253	0.5918	1.009	1.167	0.000	10.76	3	23	48	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3908	0.0769	0.5671	1.006	1.002	0.000	11.14	4.5	20	32	1.000
	200	0.3670	0.0604	0.6877	1.015	1.582	0.001	15.46	5	28	44	1.000
	300	0.3565	0.0529	0.7511	1.026	2.090	0.000	19.21	6	37	68	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3724	0.0612	0.5152	1.003	0.867	0.000	9.55	4	17	31	1.000
	200	0.3509	0.0482	0.6407	1.011	1.332	0.001	12.98	4	25	40	1.000
	300	0.3410	0.0424	0.7095	1.019	1.726	0.000	16.02	5	32	65	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3380	0.0367	0.3966	0.999	0.668	0.000	6.99	3	13	21	1.000
	200	0.3213	0.0287	0.5176	1.004	0.953	0.000	8.95	3	18	30	1.000
	300	0.3131	0.0253	0.5918	1.009	1.165	0.000	10.76	3	23	48	1.000

Notes: See notes to Table 91.

6 Findings for Experiments with Non-Gaussian Innovations and Serially Correlated Covariates (NG-SC)

We ordered and numbered individual tables as follows:

Summary table for experiments with non-Gaussian innovations and serially correlated covariates (NG-SC): List of experiments

Table No.	DGP	ω	R^2	T	Table No.	DGP	R^2	T	Table No.	DGP	R^2	T
298	I(a)	-	70%	100	343	II(a)	70%	100	388	V	70%	100
299	I(a)	-	70%	300	344	II(a)	70%	300	389	V	70%	300
300	I(a)	-	70%	500	345	II(a)	70%	500	390	V	70%	500
301	I(a)	-	50%	100	346	II(a)	50%	100	391	V	50%	100
302	I(a)	-	50%	300	347	II(a)	50%	300	392	V	50%	300
303	I(a)	-	50%	500	348	II(a)	50%	500	393	V	50%	500
304	I(a)	-	30%	100	349	II(a)	30%	100	394	V	30%	100
305	I(a)	-	30%	300	350	II(a)	30%	300	395	V	30%	300
306	I(a)	-	30%	500	351	II(a)	30%	500	396	V	30%	500
307	I(b)	-	70%	100	352	II(b)	70%	100				
308	I(b)	-	70%	300	353	II(b)	70%	300				
309	I(b)	-	70%	500	354	II(b)	70%	500				
310	I(b)	-	50%	100	355	II(b)	50%	100				
311	I(b)	-	50%	300	356	II(b)	50%	300				
312	I(b)	-	50%	500	357	II(b)	50%	500				
313	I(b)	-	30%	100	358	II(b)	30%	100				
314	I(b)	-	30%	300	359	II(b)	30%	300				
315	I(b)	-	30%	500	360	II(b)	30%	500				
316	I(c)	-	70%	100	361	III	70%	100				
317	I(c)	-	70%	300	362	III	70%	300				
318	I(c)	-	70%	500	363	III	70%	500				
319	I(c)	-	50%	100	364	III	50%	100				
320	I(c)	-	50%	300	365	III	50%	300				
321	I(c)	-	50%	500	366	III	50%	500				
322	I(c)	-	30%	100	367	III	30%	100				
323	I(c)	-	30%	300	368	III	30%	300				
324	I(c)	-	30%	500	369	III	30%	500				
325	I(d)	low	70%	100	370	IV(a)	70%	100				
326	I(d)	low	70%	300	371	IV(a)	70%	300				
327	I(d)	low	70%	500	372	IV(a)	70%	500				
328	I(d)	low	50%	100	373	IV(a)	50%	100				
329	I(d)	low	50%	300	374	IV(a)	50%	300				
330	I(d)	low	50%	500	375	IV(a)	50%	500				
331	I(d)	low	30%	100	376	IV(a)	30%	100				
332	I(d)	low	30%	300	377	IV(a)	30%	300				
333	I(d)	low	30%	500	378	IV(a)	30%	500				
334	I(d)	high	70%	100	379	IV(b)	70%	100				
335	I(d)	high	70%	300	380	IV(b)	70%	300				
336	I(d)	high	70%	500	381	IV(b)	70%	500				
337	I(d)	high	50%	100	382	IV(b)	50%	100				
338	I(d)	high	50%	300	383	IV(b)	50%	300				
339	I(d)	high	50%	500	384	IV(b)	50%	500				
340	I(d)	high	30%	100	385	IV(b)	30%	100				
341	I(d)	high	30%	300	386	IV(b)	30%	300				
342	I(d)	high	30%	500	387	IV(b)	30%	500				

Notes: ω is the average pair-wise correlation of the signal variables. The low value is $\omega = 0.2$ and the high value is $\omega = 0.8$. See section 5 of CKP for a full description of MC design.

6.1 Findings for designs with zero correlation between signal and noise variables

Table 298: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0202	0.2053	1.042	2.189	0.998	0.492	5.94	4	13	39	1.013
	200	0.9995	0.0138	0.2354	1.067	3.442	0.998	0.463	6.70	4	17	45	1.012
	300	0.9986	0.0119	0.2545	1.111	7.988	0.995	0.458	7.52	4	21	74	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0144	0.1574	1.030	1.739	0.996	0.588	5.38	4	11	35	1.005
	200	0.9988	0.0099	0.1824	1.046	2.553	0.995	0.558	5.93	4	15	36	1.007
	300	0.9984	0.0086	0.2016	1.075	5.407	0.994	0.547	6.54	4	17	66	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9975	0.0064	0.0809	1.013	1.286	0.991	0.756	4.60	4	8	27	1.002
	200	0.9969	0.0047	0.1008	1.022	1.602	0.988	0.724	4.91	4	9.5	31	1.002
	300	0.9966	0.0041	0.1144	1.032	2.545	0.987	0.707	5.21	4	11	54	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0200	0.2034	1.040	2.062	0.998	0.500	5.92	4	13	39	1.002
	200	0.9995	0.0137	0.2338	1.064	3.412	0.998	0.468	6.69	4	17	45	1.002
	300	0.9986	0.0119	0.2534	1.107	7.816	0.995	0.461	7.51	4	21	74	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9990	0.0143	0.1565	1.029	1.715	0.996	0.590	5.37	4	11	35	1.001
	200	0.9988	0.0099	0.1814	1.045	2.528	0.995	0.561	5.93	4	15	36	1.001
	300	0.9984	0.0086	0.2008	1.072	5.262	0.994	0.549	6.53	4	17	66	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9975	0.0064	0.0806	1.013	1.279	0.991	0.758	4.60	4	8	27	1.001
	200	0.9969	0.0047	0.1005	1.021	1.597	0.988	0.725	4.91	4	9.5	31	1.000
	300	0.9966	0.0041	0.1139	1.032	2.524	0.987	0.708	5.21	4	11	54	1.001

Notes: See notes to Table 1.

Table 299: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0237	0.2758	1.008	1.627	1.000	0.298	6.27	4	12	24	1.008
	200	1.0000	0.0170	0.3407	1.013	2.119	1.000	0.233	7.33	4	15	31	1.008
	300	1.0000	0.0138	0.3767	1.015	2.341	1.000	0.212	8.09	4	18	37	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0170	0.2150	1.006	1.421	1.000	0.395	5.63	4	10	20	1.003
	200	1.0000	0.0121	0.2694	1.009	1.815	1.000	0.323	6.36	4	13	28	1.005
	300	1.0000	0.0098	0.3021	1.010	1.896	1.000	0.304	6.91	4	14.5	34	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0077	0.1111	1.003	1.193	1.000	0.630	4.74	4	7.5	15	1.001
	200	1.0000	0.0056	0.1506	1.005	1.379	1.000	0.549	5.10	4	9	18	1.001
	300	1.0000	0.0045	0.1716	1.005	1.373	1.000	0.513	5.33	4	10	24	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0236	0.2750	1.008	1.581	1.000	0.299	6.26	4	11.5	24	1.001
	200	1.0000	0.0170	0.3399	1.012	2.082	1.000	0.235	7.33	4	15	31	1.001
	300	1.0000	0.0138	0.3763	1.015	2.334	1.000	0.213	8.09	4	18	37	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0170	0.2146	1.006	1.402	1.000	0.397	5.63	4	10	20	1.001
	200	1.0000	0.0120	0.2689	1.009	1.786	1.000	0.323	6.36	4	13	28	1.000
	300	1.0000	0.0098	0.3019	1.010	1.893	1.000	0.304	6.91	4	14.5	34	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0077	0.1110	1.003	1.187	1.000	0.630	4.74	4	7.5	15	1.001
	200	1.0000	0.0056	0.1504	1.005	1.375	1.000	0.549	5.10	4	9	18	1.000
	300	1.0000	0.0045	0.1715	1.005	1.371	1.000	0.513	5.32	4	10	24	1.000

Notes: See notes to Table 1.

Table 300: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0252	0.3065	1.005	1.601	1.000	0.216	6.41	4	11	18	1.005
	200	1.0000	0.0183	0.3831	1.007	1.985	1.000	0.153	7.58	4	15	23	1.009
	300	1.0000	0.0145	0.4139	1.009	2.071	1.000	0.142	8.29	4	16	41	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0180	0.2365	1.004	1.444	1.000	0.335	5.72	4	10	17	1.004
	200	1.0000	0.0133	0.3106	1.005	1.681	1.000	0.234	6.61	4	12	20	1.006
	300	1.0000	0.0105	0.3383	1.006	1.781	1.000	0.216	7.11	4	14	35	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0083	0.1255	1.002	1.209	1.000	0.566	4.79	4	7	13	1.000
	200	1.0000	0.0061	0.1715	1.002	1.311	1.000	0.469	5.19	4	9	18	1.000
	300	1.0000	0.0048	0.1923	1.003	1.376	1.000	0.446	5.43	4	9	28	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0251	0.3060	1.004	1.587	1.000	0.217	6.41	4	11	18	1.001
	200	1.0000	0.0182	0.3821	1.006	1.939	1.000	0.156	7.58	4	15	23	1.000
	300	1.0000	0.0145	0.4136	1.009	2.053	1.000	0.142	8.29	4	16	41	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0179	0.2361	1.003	1.429	1.000	0.336	5.72	4	10	17	1.000
	200	1.0000	0.0133	0.3098	1.005	1.663	1.000	0.237	6.60	4	12	20	1.000
	300	1.0000	0.0105	0.3382	1.006	1.772	1.000	0.216	7.11	4	14	35	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0083	0.1255	1.002	1.209	1.000	0.566	4.79	4	7	13	1.000
	200	1.0000	0.0061	0.1715	1.002	1.311	1.000	0.469	5.19	4	9	18	1.000
	300	1.0000	0.0048	0.1922	1.003	1.374	1.000	0.447	5.43	4	9	28	1.000

Notes: See notes to Table 1.

Table 301: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9905	0.0122	0.1409	1.026	1.732	0.967	0.598	5.14	4	10	34	1.013
	200	0.9865	0.0082	0.1678	1.039	2.309	0.951	0.553	5.55	4	12	50	1.009
	300	0.9806	0.0066	0.1734	1.057	3.209	0.937	0.550	5.89	4	14	50	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9858	0.0083	0.1008	1.019	1.487	0.952	0.675	4.74	4	8	28	1.006
	200	0.9808	0.0057	0.1254	1.029	1.934	0.931	0.623	5.03	4	10	43	1.004
	300	0.9726	0.0046	0.1315	1.039	2.247	0.917	0.616	5.25	3	11	39	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9709	0.0033	0.0468	1.011	1.201	0.909	0.772	4.20	3	6	23	1.003
	200	0.9633	0.0023	0.0574	1.015	1.312	0.882	0.732	4.29	3	6	29	1.002
	300	0.9539	0.0019	0.0669	1.021	1.378	0.871	0.704	4.39	3	7	29	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9905	0.0121	0.1390	1.024	1.660	0.967	0.604	5.12	4	10	34	1.002
	200	0.9864	0.0082	0.1667	1.038	2.278	0.950	0.557	5.54	4	12	50	1.002
	300	0.9806	0.0066	0.1723	1.055	3.185	0.937	0.553	5.88	4	14	50	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9858	0.0082	0.1000	1.018	1.443	0.952	0.678	4.73	4	8	28	1.002
	200	0.9806	0.0056	0.1249	1.028	1.875	0.931	0.625	5.03	4	10	43	1.001
	300	0.9725	0.0046	0.1307	1.038	2.232	0.916	0.618	5.25	3	11	39	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9708	0.0033	0.0464	1.010	1.182	0.909	0.773	4.20	3	6	23	1.001
	200	0.9633	0.0022	0.0570	1.014	1.301	0.882	0.733	4.29	3	6	29	1.000
	300	0.9538	0.0019	0.0666	1.021	1.376	0.870	0.703	4.39	3	7	29	1.001

Notes: See notes to Table 1.

Table 302: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0143	0.1893	1.006	1.393	1.000	0.438	5.37	4	9	20	1.005
	200	1.0000	0.0101	0.2343	1.009	1.712	1.000	0.390	5.97	4	12	24	1.004
	300	1.0000	0.0079	0.2595	1.011	1.782	1.000	0.342	6.34	4	13	29	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0095	0.1351	1.004	1.296	1.000	0.564	4.91	4	8	18	1.002
	200	1.0000	0.0069	0.1749	1.007	1.509	1.000	0.500	5.35	4	10	20	1.001
	300	1.0000	0.0053	0.1938	1.008	1.557	1.000	0.458	5.57	4	11	24	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0039	0.0618	1.002	1.153	1.000	0.769	4.37	4	6	14	1.000
	200	1.0000	0.0029	0.0845	1.003	1.229	1.000	0.716	4.56	4	7	15	1.001
	300	1.0000	0.0022	0.0954	1.004	1.288	1.000	0.688	4.65	4	7	21	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0142	0.1886	1.006	1.374	1.000	0.441	5.36	4	9	20	1.000
	200	1.0000	0.0100	0.2340	1.009	1.682	1.000	0.390	5.97	4	12	24	1.000
	300	1.0000	0.0079	0.2592	1.011	1.769	1.000	0.344	6.33	4	13	29	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0094	0.1347	1.004	1.286	1.000	0.565	4.91	4	8	18	1.000
	200	1.0000	0.0069	0.1747	1.007	1.493	1.000	0.501	5.34	4	10	20	1.000
	300	1.0000	0.0053	0.1936	1.008	1.547	1.000	0.459	5.57	4	11	24	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0039	0.0618	1.002	1.153	1.000	0.769	4.37	4	6	14	1.000
	200	1.0000	0.0029	0.0844	1.003	1.221	1.000	0.716	4.56	4	7	15	1.000
	300	1.0000	0.0022	0.0951	1.004	1.280	1.000	0.689	4.65	4	7	21	1.000

Notes: See notes to Table 1.

Table 303: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0154	0.2132	1.004	1.472	1.000	0.352	5.48	4	9	17	1.007
	200	1.0000	0.0104	0.2631	1.005	1.650	1.000	0.287	6.03	4	10	21	1.003
	300	1.0000	0.0082	0.2901	1.007	1.810	1.000	0.263	6.43	4	12	25	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0106	0.1553	1.002	1.347	1.000	0.491	5.01	4	8	15	1.003
	200	1.0000	0.0070	0.1929	1.004	1.474	1.000	0.427	5.37	4	9	16	1.001
	300	1.0000	0.0056	0.2189	1.005	1.577	1.000	0.379	5.64	4	10	18	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0043	0.0717	1.001	1.162	1.000	0.727	4.42	4	6	10	1.000
	200	1.0000	0.0029	0.0905	1.002	1.209	1.000	0.679	4.56	4	7	13	1.000
	300	1.0000	0.0022	0.1029	1.002	1.276	1.000	0.640	4.64	4	7	14	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0154	0.2122	1.004	1.440	1.000	0.355	5.47	4	9	17	1.000
	200	1.0000	0.0104	0.2627	1.005	1.643	1.000	0.288	6.03	4	10	21	1.000
	300	1.0000	0.0082	0.2896	1.007	1.772	1.000	0.264	6.42	4	12	25	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0105	0.1549	1.002	1.327	1.000	0.491	5.01	4	8	15	1.000
	200	1.0000	0.0070	0.1928	1.004	1.473	1.000	0.428	5.37	4	9	16	1.000
	300	1.0000	0.0056	0.2188	1.005	1.575	1.000	0.380	5.64	4	10	18	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0043	0.0717	1.001	1.162	1.000	0.727	4.42	4	6	10	1.000
	200	1.0000	0.0029	0.0905	1.002	1.209	1.000	0.679	4.56	4	7	13	1.000
	300	1.0000	0.0022	0.1028	1.002	1.275	1.000	0.641	4.64	4	7	14	1.000

Notes: See notes to Table 1.

Table 304: Monte Carlo findings for DGPI(a)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8818	0.0067	0.0977	1.021	1.286	0.708	0.511	4.17	2	7	19	1.008
	200	0.8425	0.0043	0.1112	1.031	1.522	0.640	0.444	4.21	1	8	36	1.004
	300	0.8378	0.0032	0.1156	1.036	1.799	0.638	0.448	4.29	1	9	37	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8519	0.0042	0.0664	1.017	1.168	0.656	0.519	3.81	1	6	16	1.005
	200	0.8075	0.0028	0.0812	1.025	1.344	0.585	0.447	3.79	1	7	32	1.003
	300	0.8079	0.0021	0.0829	1.031	1.527	0.582	0.458	3.84	1	7	32	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7750	0.0014	0.0286	1.017	1.099	0.536	0.487	3.24	0	5	11	1.003
	200	0.7139	0.0010	0.0341	1.025	1.176	0.448	0.394	3.05	0	5	21	1.001
	300	0.7236	0.0008	0.0375	1.028	1.240	0.460	0.409	3.13	0	5	22	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8818	0.0066	0.0964	1.020	1.254	0.708	0.514	4.16	2	7	19	1.002
	200	0.8425	0.0043	0.1104	1.030	1.510	0.640	0.444	4.21	1	8	36	1.001
	300	0.8378	0.0032	0.1148	1.035	1.787	0.638	0.450	4.29	1	9	37	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8519	0.0041	0.0658	1.017	1.153	0.656	0.521	3.80	1	6	16	1.002
	200	0.8074	0.0028	0.0807	1.025	1.338	0.585	0.447	3.78	1	7	32	1.001
	300	0.8079	0.0020	0.0819	1.030	1.502	0.582	0.459	3.84	1	7	32	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7750	0.0014	0.0282	1.017	1.086	0.536	0.489	3.24	0	5	11	1.001
	200	0.7139	0.0010	0.0340	1.025	1.174	0.448	0.395	3.05	0	5	21	1.000
	300	0.7236	0.0008	0.0371	1.027	1.212	0.460	0.410	3.12	0	5	22	1.000

Notes: See notes to Table 1.

Table 305: Monte Carlo findings for DGPI(a)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0070	0.1063	1.005	1.350	1.000	0.636	4.67	4	7	12	1.005
	200	0.9999	0.0045	0.1275	1.006	1.448	1.000	0.592	4.88	4	8	16	1.005
	300	0.9996	0.0035	0.1401	1.008	1.529	0.999	0.572	5.03	4	9	23	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0045	0.0727	1.004	1.245	0.999	0.730	4.43	4	6	12	1.003
	200	0.9998	0.0027	0.0841	1.004	1.301	0.999	0.706	4.54	4	7	14	1.003
	300	0.9994	0.0022	0.0943	1.005	1.354	0.998	0.688	4.65	4	7	17	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0015	0.0274	1.002	1.108	0.997	0.878	4.15	4	5	9	1.002
	200	0.9996	0.0010	0.0328	1.002	1.143	0.999	0.866	4.19	4	5	10	1.001
	300	0.9990	0.0008	0.0379	1.002	1.144	0.996	0.861	4.23	4	5	13	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0070	0.1058	1.005	1.331	1.000	0.637	4.67	4	7	12	1.002
	200	0.9999	0.0045	0.1269	1.006	1.423	1.000	0.594	4.87	4	8	16	1.000
	300	0.9996	0.0035	0.1395	1.008	1.517	0.999	0.574	5.03	4	9	23	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0045	0.0725	1.004	1.233	0.999	0.731	4.43	4	6	12	1.002
	200	0.9998	0.0027	0.0834	1.004	1.284	0.999	0.708	4.53	4	7	14	1.000
	300	0.9994	0.0022	0.0939	1.005	1.344	0.998	0.690	4.65	4	7	17	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0015	0.0271	1.002	1.100	0.997	0.879	4.14	4	5	9	1.001
	200	0.9996	0.0010	0.0327	1.002	1.141	0.999	0.867	4.19	4	5	10	1.000
	300	0.9990	0.0008	0.0377	1.002	1.127	0.996	0.862	4.23	4	5	13	1.000

Notes: See notes to Table 1.

Table 306: Monte Carlo findings for DGPI(a)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0076	0.1179	1.003	1.369	1.000	0.585	4.73	4	7	12	1.003
	200	1.0000	0.0046	0.1384	1.004	1.509	1.000	0.541	4.90	4	8	15	1.004
	300	1.0000	0.0035	0.1512	1.005	1.533	1.000	0.515	5.03	4	8	16	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0046	0.0759	1.002	1.267	1.000	0.706	4.44	4	6	10	1.002
	200	1.0000	0.0028	0.0928	1.003	1.371	1.000	0.654	4.55	4	6	12	1.002
	300	1.0000	0.0022	0.1027	1.004	1.405	1.000	0.640	4.65	4	7	14	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0015	0.0277	1.001	1.126	1.000	0.879	4.15	4	5	8	1.001
	200	1.0000	0.0009	0.0337	1.001	1.178	1.000	0.857	4.18	4	5	8	1.001
	300	1.0000	0.0008	0.0395	1.001	1.173	1.000	0.840	4.22	4	5	10	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0075	0.1174	1.003	1.360	1.000	0.587	4.72	4	7	12	1.000
	200	1.0000	0.0046	0.1378	1.004	1.489	1.000	0.543	4.89	4	8	15	1.000
	300	1.0000	0.0035	0.1510	1.005	1.528	1.000	0.516	5.03	4	8	16	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0046	0.0757	1.002	1.265	1.000	0.707	4.44	4	6	10	1.001
	200	1.0000	0.0028	0.0924	1.003	1.359	1.000	0.655	4.55	4	6	12	1.000
	300	1.0000	0.0022	0.1026	1.004	1.401	1.000	0.640	4.65	4	7	14	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0015	0.0276	1.001	1.123	1.000	0.879	4.15	4	5	8	1.000
	200	1.0000	0.0009	0.0336	1.001	1.175	1.000	0.857	4.18	4	5	8	1.000
	300	1.0000	0.0008	0.0394	1.001	1.169	1.000	0.841	4.22	4	5	10	1.000

Notes: See notes to Table 1.

Table 307: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0191	0.1961	1.043	2.284	0.996	0.513	5.83	4	12.5	28	1.013
	200	0.9990	0.0146	0.2380	1.073	4.003	0.996	0.476	6.85	4	18	52	1.013
	300	0.9988	0.0110	0.2455	1.102	6.470	0.995	0.464	7.26	4	20.5	73	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0135	0.1487	1.030	1.875	0.995	0.610	5.29	4	11	25	1.011
	200	0.9989	0.0105	0.1865	1.050	2.641	0.996	0.567	6.05	4	15	40	1.007
	300	0.9980	0.0078	0.1905	1.068	4.672	0.992	0.556	6.30	4	16	68	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9975	0.0063	0.0790	1.014	1.375	0.990	0.764	4.59	4	8	18	1.004
	200	0.9976	0.0049	0.1048	1.023	1.690	0.991	0.721	4.95	4	10	32	1.003
	300	0.9968	0.0036	0.1041	1.029	2.190	0.987	0.724	5.06	4	10	51	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9988	0.0190	0.1948	1.040	2.185	0.995	0.517	5.82	4	12.5	28	1.004
	200	0.9989	0.0145	0.2362	1.071	3.971	0.996	0.481	6.84	4	18	52	1.002
	300	0.9988	0.0110	0.2443	1.098	6.307	0.995	0.467	7.25	4	20.5	73	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9985	0.0134	0.1473	1.028	1.760	0.994	0.615	5.28	4	10.5	25	1.001
	200	0.9988	0.0105	0.1855	1.048	2.611	0.995	0.570	6.05	4	15	40	1.000
	300	0.9980	0.0078	0.1896	1.066	4.645	0.992	0.558	6.29	4	16	68	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9975	0.0063	0.0783	1.013	1.338	0.990	0.766	4.59	4	8	18	1.000
	200	0.9975	0.0049	0.1045	1.022	1.680	0.990	0.722	4.94	4	10	32	1.001
	300	0.9965	0.0036	0.1039	1.029	2.188	0.986	0.724	5.05	4	10	51	1.001

Notes: See notes to Table 1.

Table 308: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0244	0.2793	1.008	1.737	1.000	0.294	6.34	4	12	24	1.011
	200	1.0000	0.0176	0.3463	1.012	2.037	1.000	0.233	7.46	4	15	30	1.006
	300	1.0000	0.0137	0.3745	1.015	2.277	1.000	0.204	8.06	4	18	41	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0172	0.2151	1.006	1.495	1.000	0.402	5.65	4	10	22	1.004
	200	1.0000	0.0126	0.2775	1.009	1.717	1.000	0.326	6.47	4	13	29	1.002
	300	1.0000	0.0098	0.3025	1.011	1.872	1.000	0.288	6.91	4	14.5	32	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0079	0.1145	1.003	1.244	1.000	0.622	4.76	4	7	19	1.001
	200	1.0000	0.0059	0.1556	1.005	1.331	1.000	0.548	5.16	4	9	21	1.001
	300	1.0000	0.0046	0.1737	1.006	1.404	1.000	0.513	5.37	4	10	22	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0243	0.2781	1.008	1.679	1.000	0.297	6.33	4	12	24	1.002
	200	1.0000	0.0176	0.3455	1.012	2.015	1.000	0.235	7.45	4	15	30	1.001
	300	1.0000	0.0137	0.3741	1.015	2.246	1.000	0.204	8.06	4	18	41	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0171	0.2145	1.006	1.472	1.000	0.403	5.65	4	10	22	1.000
	200	1.0000	0.0126	0.2773	1.009	1.699	1.000	0.326	6.47	4	13	29	1.000
	300	1.0000	0.0098	0.3023	1.011	1.848	1.000	0.289	6.91	4	14.5	32	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0079	0.1143	1.003	1.225	1.000	0.623	4.76	4	7	19	1.000
	200	1.0000	0.0059	0.1554	1.005	1.316	1.000	0.549	5.16	4	9	21	1.000
	300	1.0000	0.0046	0.1736	1.006	1.402	1.000	0.514	5.37	4	10	22	1.000

Notes: See notes to Table 1.

Table 309: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0251	0.3051	1.005	1.607	1.000	0.211	6.41	4	11	19	1.015
	200	1.0000	0.0178	0.3758	1.007	1.865	1.000	0.157	7.48	4	14	26	1.006
	300	1.0000	0.0140	0.4102	1.008	2.042	1.000	0.130	8.14	4	16	33	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0178	0.2361	1.003	1.423	1.000	0.320	5.71	4	10	18	1.007
	200	1.0000	0.0128	0.3004	1.005	1.637	1.000	0.254	6.50	4	12	22	1.004
	300	1.0000	0.0101	0.3320	1.006	1.719	1.000	0.215	6.98	4	13	29	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0082	0.1261	1.002	1.196	1.000	0.561	4.79	4	7	13	1.002
	200	1.0000	0.0060	0.1678	1.002	1.294	1.000	0.484	5.17	4	9	16	1.001
	300	1.0000	0.0046	0.1882	1.003	1.345	1.000	0.436	5.36	4	9	20	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0250	0.3037	1.004	1.553	1.000	0.215	6.40	4	11	19	1.003
	200	1.0000	0.0177	0.3752	1.006	1.843	1.000	0.159	7.48	4	14	26	1.001
	300	1.0000	0.0140	0.4097	1.008	2.012	1.000	0.132	8.14	4	16	33	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0177	0.2354	1.003	1.403	1.000	0.322	5.70	4	10	18	1.001
	200	1.0000	0.0128	0.3000	1.005	1.622	1.000	0.255	6.50	4	12	22	1.001
	300	1.0000	0.0100	0.3318	1.006	1.705	1.000	0.215	6.97	4	13	29	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0082	0.1258	1.002	1.187	1.000	0.562	4.79	4	7	13	1.000
	200	1.0000	0.0060	0.1677	1.002	1.293	1.000	0.485	5.17	4	9	16	1.001
	300	1.0000	0.0046	0.1882	1.003	1.345	1.000	0.436	5.36	4	9	20	1.000

Notes: See notes to Table 1.

Table 310: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9926	0.0114	0.1364	1.025	1.619	0.971	0.597	5.06	4	9	25	1.012
	200	0.9855	0.0081	0.1677	1.040	2.322	0.949	0.546	5.53	4	12	38	1.011
	300	0.9829	0.0067	0.1803	1.057	2.903	0.942	0.542	5.92	4	14	54	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9898	0.0076	0.0979	1.017	1.387	0.961	0.674	4.69	4	8	22	1.005
	200	0.9806	0.0055	0.1246	1.029	1.937	0.935	0.619	5.01	4	10	36	1.009
	300	0.9768	0.0047	0.1384	1.042	2.414	0.921	0.599	5.29	3	11	53	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9768	0.0031	0.0444	1.008	1.135	0.917	0.784	4.21	3	6	17	1.002
	200	0.9639	0.0023	0.0594	1.014	1.310	0.890	0.732	4.30	3	7	26	1.001
	300	0.9603	0.0019	0.0673	1.022	1.570	0.874	0.711	4.41	3	7	45	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9925	0.0113	0.1350	1.023	1.540	0.970	0.601	5.05	4	9	25	1.001
	200	0.9855	0.0080	0.1656	1.038	2.278	0.949	0.554	5.52	4	12	38	1.001
	300	0.9828	0.0067	0.1791	1.056	2.858	0.941	0.545	5.91	4	14	54	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9896	0.0076	0.0973	1.016	1.361	0.960	0.675	4.69	4	8	22	1.002
	200	0.9805	0.0055	0.1228	1.028	1.901	0.935	0.625	5.00	4	10	36	1.000
	300	0.9768	0.0046	0.1373	1.041	2.373	0.921	0.604	5.28	3	11	53	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9768	0.0031	0.0441	1.008	1.129	0.917	0.784	4.20	3	6	17	1.001
	200	0.9639	0.0023	0.0593	1.014	1.305	0.890	0.733	4.30	3	7	26	1.001
	300	0.9603	0.0019	0.0669	1.022	1.542	0.874	0.712	4.40	3	7	45	1.000

Notes: See notes to Table 1.

Table 311: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0148	0.1961	1.007	1.494	1.000	0.423	5.42	4	9	17	1.008
	200	1.0000	0.0099	0.2356	1.009	1.700	1.000	0.380	5.93	4	11	26	1.006
	300	1.0000	0.0083	0.2673	1.011	1.827	1.000	0.354	6.46	4	13	36	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0099	0.1416	1.005	1.318	1.000	0.546	4.96	4	8	16	1.004
	200	1.0000	0.0067	0.1772	1.006	1.483	1.000	0.482	5.32	4	9	21	1.004
	300	1.0000	0.0057	0.2038	1.008	1.568	1.000	0.464	5.69	4	11	31	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0042	0.0662	1.002	1.152	1.000	0.754	4.40	4	6	11	1.001
	200	1.0000	0.0027	0.0820	1.003	1.212	1.000	0.719	4.53	4	7	15	1.003
	300	1.0000	0.0023	0.1005	1.004	1.292	1.000	0.678	4.69	4	7	22	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0147	0.1952	1.007	1.420	1.000	0.425	5.41	4	9	17	1.001
	200	1.0000	0.0098	0.2348	1.009	1.650	1.000	0.381	5.93	4	11	26	1.001
	300	1.0000	0.0083	0.2667	1.011	1.801	1.000	0.356	6.45	4	13	36	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0099	0.1412	1.005	1.296	1.000	0.547	4.95	4	8	16	1.001
	200	1.0000	0.0067	0.1767	1.006	1.455	1.000	0.483	5.32	4	9	21	1.000
	300	1.0000	0.0057	0.2034	1.008	1.550	1.000	0.466	5.69	4	11	31	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0041	0.0661	1.002	1.151	1.000	0.754	4.40	4	6	11	1.000
	200	1.0000	0.0027	0.0816	1.003	1.202	1.000	0.720	4.53	4	7	15	1.000
	300	1.0000	0.0023	0.1003	1.004	1.286	1.000	0.678	4.69	4	7	22	1.000

Notes: See notes to Table 1.

Table 312: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0149	0.2081	1.004	1.430	1.000	0.368	5.43	4	9	19	1.008
	200	1.0000	0.0099	0.2525	1.006	1.621	1.000	0.313	5.93	4	10.5	20	1.003
	300	1.0000	0.0080	0.2850	1.007	1.762	1.000	0.271	6.36	4	12	26	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0099	0.1470	1.003	1.304	1.000	0.506	4.95	4	8	15	1.004
	200	1.0000	0.0067	0.1868	1.004	1.461	1.000	0.435	5.31	4	9	17	1.001
	300	1.0000	0.0053	0.2140	1.005	1.547	1.000	0.382	5.58	4	10	19	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0040	0.0654	1.001	1.142	1.000	0.745	4.38	4	6	12	1.001
	200	1.0000	0.0028	0.0886	1.002	1.243	1.000	0.677	4.54	4	6	13	1.002
	300	1.0000	0.0022	0.1026	1.002	1.270	1.000	0.638	4.64	4	7	14	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0149	0.2070	1.004	1.402	1.000	0.371	5.43	4	9	19	1.001
	200	1.0000	0.0099	0.2523	1.006	1.617	1.000	0.313	5.93	4	10.5	20	1.001
	300	1.0000	0.0080	0.2847	1.006	1.743	1.000	0.272	6.36	4	12	26	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0098	0.1465	1.003	1.288	1.000	0.507	4.94	4	8	15	1.000
	200	1.0000	0.0067	0.1867	1.004	1.460	1.000	0.436	5.31	4	9	17	1.001
	300	1.0000	0.0053	0.2138	1.005	1.545	1.000	0.382	5.58	4	10	19	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0039	0.0652	1.001	1.138	1.000	0.745	4.38	4	6	12	1.000
	200	1.0000	0.0028	0.0883	1.002	1.239	1.000	0.678	4.54	4	6	13	1.001
	300	1.0000	0.0022	0.1026	1.002	1.270	1.000	0.638	4.64	4	7	14	1.000

Notes: See notes to Table 1.

Table 313: Monte Carlo findings for DGPI(b)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8765	0.0069	0.0994	1.024	1.356	0.712	0.505	4.17	1	7	27	1.008
	200	0.8583	0.0038	0.0996	1.025	1.657	0.669	0.476	4.17	1	8	34	1.007
	300	0.8338	0.0032	0.1168	1.036	1.930	0.632	0.431	4.28	1	8	45	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8425	0.0044	0.0688	1.019	1.193	0.653	0.516	3.79	1	6	21	1.004
	200	0.8220	0.0024	0.0691	1.022	1.518	0.610	0.480	3.76	1	7	32	1.005
	300	0.7965	0.0021	0.0831	1.029	1.671	0.568	0.428	3.80	1	7	37	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7615	0.0016	0.0306	1.019	1.067	0.527	0.474	3.20	0	5	13	1.001
	200	0.7329	0.0009	0.0299	1.024	1.112	0.474	0.421	3.10	0	5	20	1.001
	300	0.7074	0.0007	0.0349	1.028	1.249	0.444	0.394	3.05	0	5	29	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8765	0.0068	0.0980	1.022	1.303	0.712	0.508	4.16	1	7	27	1.001
	200	0.8583	0.0037	0.0984	1.024	1.581	0.669	0.478	4.16	1	8	34	1.003
	300	0.8338	0.0032	0.1157	1.034	1.888	0.632	0.432	4.27	1	8	45	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8425	0.0043	0.0682	1.019	1.165	0.653	0.517	3.79	1	6	21	1.000
	200	0.8219	0.0024	0.0680	1.021	1.457	0.610	0.482	3.76	1	7	32	1.001
	300	0.7965	0.0021	0.0828	1.028	1.665	0.568	0.428	3.80	1	7	37	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7615	0.0016	0.0304	1.019	1.054	0.527	0.474	3.20	0	5	13	1.000
	200	0.7329	0.0009	0.0296	1.024	1.105	0.474	0.422	3.10	0	5	20	1.000
	300	0.7074	0.0007	0.0344	1.028	1.238	0.444	0.394	3.05	0	5	29	1.000

Notes: See notes to Table 1.

Table 314: Monte Carlo findings for DGPI(b)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0072	0.1077	1.005	1.346	1.000	0.632	4.69	4	7	14	1.007
	200	1.0000	0.0042	0.1227	1.006	1.429	1.000	0.597	4.82	4	8	23	1.005
	300	0.9994	0.0034	0.1415	1.007	1.430	0.998	0.564	5.01	4	8.5	21	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0045	0.0710	1.003	1.222	1.000	0.741	4.44	4	6	12	1.002
	200	1.0000	0.0025	0.0792	1.004	1.301	1.000	0.716	4.50	4	6	19	1.003
	300	0.9993	0.0021	0.0963	1.005	1.301	0.998	0.675	4.63	4	7	19	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0016	0.0279	1.001	1.097	1.000	0.883	4.15	4	5	10	1.001
	200	0.9995	0.0009	0.0296	1.002	1.138	0.998	0.880	4.17	4	5	11	1.001
	300	0.9985	0.0008	0.0381	1.003	1.163	0.995	0.846	4.22	4	5	10	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0072	0.1068	1.005	1.315	1.000	0.634	4.69	4	7	14	1.001
	200	1.0000	0.0042	0.1220	1.006	1.400	1.000	0.600	4.81	4	8	23	1.001
	300	0.9994	0.0034	0.1412	1.007	1.422	0.998	0.565	5.00	4	8.5	21	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0045	0.0707	1.003	1.216	1.000	0.742	4.43	4	6	12	1.000
	200	1.0000	0.0025	0.0787	1.004	1.284	1.000	0.718	4.50	4	6	19	1.001
	300	0.9993	0.0021	0.0962	1.005	1.300	0.998	0.676	4.63	4	7	19	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.0016	0.0278	1.001	1.093	1.000	0.883	4.15	4	5	10	1.000
	200	0.9995	0.0009	0.0295	1.002	1.132	0.998	0.881	4.17	4	5	11	1.000
	300	0.9985	0.0008	0.0381	1.003	1.163	0.995	0.846	4.22	4	5	10	1.000

Notes: See notes to Table 1.

Table 315: Monte Carlo findings for DGPI(b)

$T = 500$, $R^2 = 30\%$, NG-SU (non-Gaussian innovations with serially uncorrelated covariates).

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0071	0.1128	1.003	1.367	1.000	0.588	4.68	4	7	14	1.005
	200	1.0000	0.0047	0.1434	1.004	1.409	1.000	0.522	4.92	4	8	13	1.001
	300	1.0000	0.0037	0.1579	1.004	1.556	1.000	0.499	5.08	4	8	21	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0045	0.0744	1.002	1.271	1.000	0.711	4.43	4	6	10	1.005
	200	1.0000	0.0030	0.0978	1.003	1.315	1.000	0.638	4.59	4	7	12	1.001
	300	1.0000	0.0023	0.1077	1.003	1.395	1.000	0.628	4.68	4	7	17	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0016	0.0288	1.001	1.135	1.000	0.876	4.16	4	5	8	1.002
	200	1.0000	0.0009	0.0338	1.001	1.131	1.000	0.857	4.19	4	5	9	1.000
	300	1.0000	0.0008	0.0424	1.001	1.189	1.000	0.828	4.24	4	5	13	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0071	0.1123	1.003	1.357	1.000	0.589	4.68	4	7	14	1.002
	200	1.0000	0.0047	0.1432	1.004	1.404	1.000	0.522	4.92	4	8	13	1.000
	300	1.0000	0.0036	0.1572	1.004	1.536	1.000	0.502	5.08	4	8	21	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0044	0.0733	1.002	1.253	1.000	0.715	4.42	4	6	10	1.000
	200	1.0000	0.0030	0.0978	1.003	1.311	1.000	0.638	4.59	4	7	12	1.000
	300	1.0000	0.0023	0.1074	1.003	1.386	1.000	0.629	4.68	4	7	17	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0016	0.0283	1.001	1.124	1.000	0.878	4.15	4	5	8	1.000
	200	1.0000	0.0009	0.0338	1.001	1.131	1.000	0.857	4.19	4	5	9	1.000
	300	1.0000	0.0008	0.0423	1.001	1.184	1.000	0.829	4.24	4	5	13	1.000

Notes: See notes to Table 1.

Table 316: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1,\ \delta = 1,\ \delta^* = 1.5$	100	0.9988	0.0247	0.1756	1.092	86.944	0.995	0.589	6.37	4	15	83	1.012
	200	0.9984	0.0177	0.1917	1.330	183.812	0.994	0.568	7.47	4	20	194	1.028
	300	0.9984	0.0192	0.1983	1.577	270.932	0.994	0.581	9.68	4	24	279	1.094
$p = 0.05,\ \delta = 1,\ \delta^* = 1.5$	100	0.9984	0.0181	0.1381	1.073	83.328	0.994	0.657	5.73	4	13	80	1.011
	200	0.9979	0.0132	0.1465	1.269	260.539	0.992	0.658	6.57	4	15.5	193	1.026
	300	0.9979	0.0139	0.1563	1.375	172.624	0.992	0.657	8.10	4	17	265	1.064
$p = 0.01,\ \delta = 1,\ \delta^* = 1.5$	100	0.9974	0.0087	0.0768	1.028	35.992	0.991	0.786	4.83	4	8	73	1.005
	200	0.9974	0.0061	0.0798	1.102	121.561	0.990	0.791	5.19	4	9	188	1.010
	300	0.9966	0.0081	0.0902	1.250	146.989	0.987	0.776	6.39	4	9	263	1.053
$p = 0.1,\ \delta = 1,\ \delta^* = 2$	100	0.9988	0.0246	0.1745	1.091	86.934	0.995	0.593	6.36	4	15	83	1.004
	200	0.9984	0.0177	0.1907	1.321	181.651	0.994	0.569	7.46	4	20	194	1.019
	300	0.9984	0.0191	0.1971	1.522	252.929	0.994	0.584	9.66	4	24	279	1.084
$p = 0.05,\ \delta = 1,\ \delta^* = 2$	100	0.9984	0.0179	0.1368	1.072	83.314	0.994	0.660	5.72	4	13	80	1.004
	200	0.9978	0.0131	0.1453	1.267	260.535	0.991	0.660	6.56	4	15	193	1.019
	300	0.9979	0.0138	0.1553	1.340	158.830	0.992	0.659	8.08	4	17	265	1.059
$p = 0.01,\ \delta = 1,\ \delta^* = 2$	100	0.9973	0.0087	0.0762	1.028	35.989	0.990	0.788	4.82	4	8	73	1.001
	200	0.9971	0.0061	0.0795	1.102	121.561	0.989	0.792	5.18	4	9	188	1.008
	300	0.9966	0.0081	0.0899	1.249	146.988	0.987	0.777	6.38	4	9	263	1.052

Notes: See notes to Table 1.

Table 317: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0273	0.2200	1.012	12.315	1.000	0.445	6.62	4	16	71	1.008
	200	1.0000	0.0229	0.2632	1.030	67.094	1.000	0.401	8.50	4	23	154	1.007
	300	1.0000	0.0185	0.2809	1.050	108.794	1.000	0.364	9.47	4	27.5	189	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0196	0.1675	1.008	9.918	1.000	0.548	5.88	4	12	68	1.003
	200	1.0000	0.0170	0.2049	1.024	57.171	1.000	0.504	7.34	4	17.5	152	1.004
	300	1.0000	0.0138	0.2220	1.034	76.157	1.000	0.462	8.08	4	20.5	174	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0092	0.0898	1.004	6.216	1.000	0.732	4.89	4	8	60	1.002
	200	1.0000	0.0090	0.1171	1.012	34.547	1.000	0.676	5.76	4	9	140	1.000
	300	1.0000	0.0070	0.1238	1.016	40.955	1.000	0.667	6.08	4	10	151	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0272	0.2192	1.012	12.290	1.000	0.447	6.61	4	16	71	1.002
	200	1.0000	0.0229	0.2625	1.030	67.089	1.000	0.403	8.49	4	23	154	1.001
	300	1.0000	0.0185	0.2805	1.050	108.785	1.000	0.365	9.46	4	27.5	189	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0195	0.1671	1.008	9.913	1.000	0.549	5.87	4	12	68	1.002
	200	1.0000	0.0170	0.2046	1.023	57.167	1.000	0.504	7.34	4	17.5	152	1.000
	300	1.0000	0.0138	0.2220	1.034	76.151	1.000	0.462	8.08	4	20.5	174	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0092	0.0897	1.004	6.213	1.000	0.732	4.89	4	8	60	1.001
	200	1.0000	0.0090	0.1171	1.012	34.547	1.000	0.676	5.76	4	9	140	1.000
	300	1.0000	0.0070	0.1238	1.016	40.955	1.000	0.667	6.08	4	10	151	1.000

Notes: See notes to Table 1.

Table 318: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0307	0.2312	1.006	9.845	1.000	0.416	6.95	4	18	66	1.009
	200	1.0000	0.0241	0.2854	1.014	27.869	1.000	0.338	8.72	4	24	138	1.008
	300	1.0000	0.0202	0.3111	1.022	81.147	1.000	0.296	9.99	4	30.5	224	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0226	0.1812	1.004	8.638	1.000	0.513	6.17	4	15	66	1.006
	200	1.0000	0.0178	0.2253	1.010	22.365	1.000	0.437	7.48	4	17	132	1.002
	300	1.0000	0.0149	0.2472	1.017	68.722	1.000	0.397	8.41	4	23	219	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0112	0.0998	1.002	5.022	1.000	0.705	5.07	4	8	61	1.001
	200	1.0000	0.0090	0.1272	1.005	13.379	1.000	0.640	5.76	4	10	124	1.000
	300	1.0000	0.0075	0.1434	1.009	57.706	1.000	0.602	6.21	4	12	195	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0306	0.2302	1.006	9.816	1.000	0.418	6.94	4	18	66	1.001
	200	1.0000	0.0240	0.2846	1.013	27.833	1.000	0.340	8.71	4	24	138	1.000
	300	1.0000	0.0202	0.3103	1.022	81.118	1.000	0.298	9.97	4	30	224	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0225	0.1804	1.004	8.604	1.000	0.515	6.16	4	14.5	66	1.001
	200	1.0000	0.0177	0.2249	1.010	22.360	1.000	0.438	7.48	4	17	132	1.000
	300	1.0000	0.0149	0.2468	1.017	68.678	1.000	0.398	8.40	4	23	219	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0111	0.0998	1.002	5.012	1.000	0.705	5.07	4	8	61	1.000
	200	1.0000	0.0090	0.1272	1.005	13.379	1.000	0.640	5.76	4	10	124	1.000
	300	1.0000	0.0074	0.1433	1.009	57.705	1.000	0.602	6.20	4	11.5	195	1.001

Notes: See notes to Table 1.

Table 319: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9899	0.0131	0.1165	1.043	21.601	0.967	0.667	5.21	4	10	67	1.012
	200	0.9840	0.0090	0.1271	1.191	193.878	0.945	0.669	5.71	4	12.5	94	1.007
	300	0.9848	0.0103	0.1340	1.220	157.937	0.945	0.644	7.00	4	13	270	1.054
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9860	0.0087	0.0827	1.030	14.245	0.953	0.734	4.78	4	8	62	1.008
	200	0.9770	0.0063	0.0940	1.095	48.020	0.922	0.715	5.14	3	10	84	1.006
	300	0.9795	0.0080	0.0976	1.208	134.240	0.928	0.708	6.29	3	9.5	275	1.042
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9716	0.0037	0.0386	1.015	5.009	0.912	0.810	4.24	3	6	52	1.002
	200	0.9595	0.0026	0.0461	1.027	15.155	0.874	0.761	4.35	3	6	71	1.001
	300	0.9640	0.0031	0.0491	1.093	98.775	0.879	0.769	4.78	3	6	263	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9899	0.0129	0.1149	1.039	21.369	0.967	0.672	5.20	4	10	67	1.001
	200	0.9839	0.0090	0.1260	1.190	193.878	0.944	0.671	5.70	4	12.5	94	1.001
	300	0.9846	0.0103	0.1333	1.215	157.771	0.945	0.646	6.99	4	13	270	1.048
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9860	0.0086	0.0818	1.028	14.060	0.953	0.735	4.77	4	8	62	1.002
	200	0.9770	0.0062	0.0928	1.093	48.016	0.922	0.717	5.13	3	10	84	1.000
	300	0.9795	0.0080	0.0975	1.162	125.731	0.928	0.708	6.28	3	9.5	280	1.040
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9716	0.0036	0.0381	1.014	4.999	0.912	0.811	4.24	3	6	52	1.000
	200	0.9595	0.0026	0.0459	1.027	15.152	0.874	0.762	4.35	3	6	71	1.000
	300	0.9640	0.0031	0.0490	1.093	98.775	0.879	0.769	4.78	3	6	263	1.009

Notes: See notes to Table 1.

Table 320: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0163	0.1458	1.007	6.474	1.000	0.596	5.57	4	11	59	1.006
	200	1.0000	0.0128	0.1749	1.015	23.130	1.000	0.548	6.51	4	14.5	113	1.008
	300	1.0000	0.0098	0.1784	1.026	50.973	1.000	0.530	6.91	4	13.5	164	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0110	0.1051	1.005	4.216	1.000	0.695	5.05	4	8	54	1.002
	200	1.0000	0.0090	0.1311	1.011	17.562	1.000	0.645	5.77	4	11	105	1.003
	300	1.0000	0.0070	0.1308	1.017	36.014	1.000	0.634	6.08	4	10	146	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0044	0.0478	1.002	2.095	1.000	0.848	4.42	4	6	35	1.001
	200	1.0000	0.0038	0.0667	1.005	6.747	1.000	0.801	4.75	4	7	78	1.001
	300	1.0000	0.0032	0.0639	1.007	15.219	1.000	0.813	4.95	4	7	108	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0163	0.1450	1.007	6.451	1.000	0.599	5.56	4	11	59	1.000
	200	1.0000	0.0128	0.1745	1.015	23.050	1.000	0.548	6.51	4	14	113	1.001
	300	1.0000	0.0098	0.1779	1.026	50.972	1.000	0.532	6.91	4	13.5	164	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0109	0.1048	1.005	4.206	1.000	0.696	5.05	4	8	54	1.000
	200	1.0000	0.0090	0.1310	1.011	17.532	1.000	0.645	5.77	4	11	105	1.001
	300	1.0000	0.0070	0.1306	1.017	36.013	1.000	0.635	6.08	4	10	146	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0044	0.0477	1.002	2.093	1.000	0.849	4.42	4	6	35	1.000
	200	1.0000	0.0038	0.0665	1.005	6.743	1.000	0.802	4.75	4	7	78	1.000
	300	1.0000	0.0032	0.0639	1.007	15.219	1.000	0.813	4.95	4	7	108	1.000

Notes: See notes to Table 1.

Table 321: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0202	0.1546	1.005	9.740	1.000	0.581	5.94	4	12	79	1.008
	200	1.0000	0.0136	0.1909	1.007	12.237	1.000	0.506	6.67	4	16	110	1.007
	300	1.0000	0.0101	0.1967	1.009	28.966	1.000	0.489	7.00	4	15	194	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0144	0.1157	1.004	8.265	1.000	0.668	5.39	4	10	78	1.005
	200	1.0000	0.0093	0.1406	1.004	9.256	1.000	0.615	5.83	4	11.5	104	1.001
	300	1.0000	0.0071	0.1467	1.006	23.553	1.000	0.590	6.10	4	11	188	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0070	0.0590	1.002	5.373	1.000	0.821	4.68	4	6	69	1.000
	200	1.0000	0.0040	0.0691	1.002	4.479	1.000	0.787	4.78	4	7	83	1.000
	300	1.0000	0.0031	0.0733	1.002	12.315	1.000	0.776	4.92	4	7	168	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0201	0.1536	1.005	9.682	1.000	0.583	5.93	4	12	79	1.000
	200	1.0000	0.0136	0.1903	1.007	12.209	1.000	0.507	6.66	4	16	110	1.001
	300	1.0000	0.0101	0.1963	1.009	28.958	1.000	0.489	7.00	4	15	194	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0144	0.1150	1.004	8.251	1.000	0.670	5.38	4	10	78	1.000
	200	1.0000	0.0093	0.1405	1.004	9.252	1.000	0.615	5.83	4	11.5	104	1.000
	300	1.0000	0.0071	0.1465	1.006	23.549	1.000	0.590	6.10	4	11	188	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0070	0.0590	1.002	5.373	1.000	0.821	4.68	4	6	69	1.000
	200	1.0000	0.0040	0.0691	1.002	4.479	1.000	0.787	4.78	4	7	83	1.000
	300	1.0000	0.0031	0.0731	1.002	12.308	1.000	0.776	4.92	4	7	168	1.000

Notes: See notes to Table 1.

Table 322: Monte Carlo findings for DGPI(c)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8835	0.0077	0.0769	1.034	10.003	0.717	0.560	4.27	2	7	53	1.008
	200	0.8476	0.0049	0.0797	1.062	44.196	0.651	0.510	4.35	1	7	84	1.004
	300	0.8305	0.0043	0.0812	1.114	81.581	0.622	0.491	4.59	1	8	263	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8509	0.0048	0.0519	1.026	4.335	0.659	0.563	3.87	1	6	42	1.004
	200	0.8149	0.0032	0.0547	1.044	16.694	0.601	0.508	3.88	1	6	68	1.005
	300	0.7963	0.0028	0.0569	1.201	133.312	0.569	0.478	4.01	1	6	253	1.012
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7698	0.0018	0.0220	1.020	1.764	0.525	0.489	3.25	1	4	29	1.002
	200	0.7250	0.0011	0.0234	1.029	3.178	0.479	0.442	3.12	0	4	36	1.002
	300	0.7119	0.0012	0.0249	1.052	72.476	0.452	0.421	3.20	0	4	252	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8834	0.0076	0.0756	1.033	9.988	0.717	0.562	4.26	2	7	53	1.002
	200	0.8476	0.0049	0.0788	1.062	44.193	0.651	0.512	4.34	1	7	84	1.001
	300	0.8304	0.0043	0.0804	1.112	81.576	0.622	0.492	4.58	1	7.5	263	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8509	0.0048	0.0512	1.025	4.301	0.659	0.564	3.86	1	6	42	1.001
	200	0.8149	0.0031	0.0536	1.043	16.685	0.601	0.511	3.87	1	6	68	1.001
	300	0.7961	0.0028	0.0562	1.152	122.897	0.568	0.479	4.00	1	6	253	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7698	0.0018	0.0218	1.019	1.749	0.525	0.490	3.25	1	4	29	1.001
	200	0.7250	0.0011	0.0230	1.029	3.173	0.479	0.442	3.12	0	4	36	1.001
	300	0.7119	0.0012	0.0248	1.052	72.476	0.452	0.421	3.20	0	4	252	1.004

Notes: See notes to Table 1.

Table 323: Monte Carlo findings for DGPI(c)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0102	0.0896	1.006	4.958	0.999	0.738	4.97	4	8	64	1.005
	200	0.9999	0.0053	0.0902	1.007	10.845	1.000	0.740	5.05	4	8	96	1.004
	300	0.9999	0.0034	0.0916	1.011	72.538	1.000	0.709	5.01	4	7	214	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0066	0.0614	1.004	4.264	0.999	0.815	4.63	4	6	61	1.001
	200	0.9998	0.0034	0.0628	1.005	7.067	0.999	0.805	4.67	4	7	85	1.001
	300	0.9996	0.0022	0.0611	1.007	51.969	0.999	0.792	4.66	4	6	203	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0024	0.0250	1.002	2.997	0.998	0.916	4.23	4	5	57	1.000
	200	0.9993	0.0012	0.0237	1.002	3.102	0.997	0.918	4.22	4	5	52	1.001
	300	0.9991	0.0008	0.0200	1.003	25.770	0.997	0.926	4.24	4	5	173	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0101	0.0889	1.006	4.876	0.999	0.740	4.97	4	8	64	1.000
	200	0.9999	0.0053	0.0898	1.007	10.835	1.000	0.742	5.04	4	8	96	1.000
	300	0.9999	0.0034	0.0910	1.011	72.537	1.000	0.712	5.01	4	7	214	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0065	0.0613	1.004	4.225	0.999	0.815	4.63	4	6	61	1.000
	200	0.9998	0.0034	0.0627	1.005	7.035	0.999	0.806	4.67	4	7	85	1.000
	300	0.9996	0.0022	0.0609	1.007	51.968	0.999	0.793	4.66	4	6	203	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.0024	0.0250	1.002	2.997	0.998	0.916	4.23	4	5	57	1.000
	200	0.9993	0.0012	0.0236	1.002	3.091	0.997	0.918	4.22	4	5	52	1.000
	300	0.9991	0.0008	0.0200	1.003	25.770	0.997	0.926	4.24	4	5	173	1.000

Notes: See notes to Table 1.

Table 324: Monte Carlo findings for DGPI(c)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0090	0.0883	1.003	3.039	1.000	0.723	4.87	4	7	52	1.005
	200	1.0000	0.0056	0.0950	1.004	6.642	1.000	0.715	5.09	4	8	118	1.004
	300	1.0000	0.0046	0.0992	1.006	10.139	1.000	0.708	5.37	4	8	127	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0057	0.0600	1.002	2.237	1.000	0.805	4.55	4	6	44	1.003
	200	1.0000	0.0036	0.0647	1.002	5.768	1.000	0.796	4.70	4	7	109	1.002
	300	1.0000	0.0030	0.0687	1.004	7.202	1.000	0.784	4.88	4	6	108	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0020	0.0245	1.001	1.459	1.000	0.916	4.20	4	5	40	1.001
	200	1.0000	0.0014	0.0285	1.001	2.876	1.000	0.898	4.27	4	5	78	1.001
	300	1.0000	0.0010	0.0291	1.001	2.989	1.000	0.907	4.31	4	5	64	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0089	0.0877	1.003	2.965	1.000	0.723	4.86	4	7	52	1.001
	200	1.0000	0.0055	0.0944	1.004	6.613	1.000	0.717	5.09	4	8	118	1.000
	300	1.0000	0.0046	0.0988	1.006	10.116	1.000	0.708	5.36	4	8	127	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0057	0.0595	1.002	2.184	1.000	0.806	4.54	4	6	44	1.000
	200	1.0000	0.0036	0.0646	1.002	5.739	1.000	0.797	4.70	4	7	109	1.000
	300	1.0000	0.0030	0.0685	1.003	7.191	1.000	0.785	4.87	4	6	108	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0020	0.0243	1.001	1.454	1.000	0.917	4.20	4	5	40	1.000
	200	1.0000	0.0014	0.0285	1.001	2.847	1.000	0.898	4.27	4	5	78	1.000
	300	1.0000	0.0010	0.0291	1.001	2.989	1.000	0.907	4.31	4	5	64	1.000

Notes: See notes to Table 1.

Table 325: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9694	0.0751	0.5022	1.203	9.699	0.885	0.126	11.09	4	26	45	1.105
	200	0.9595	0.0592	0.5609	1.437	29.308	0.851	0.119	15.43	4	40	76	1.095
	300	0.9494	0.0541	0.6141	1.763	82.626	0.817	0.098	19.80	4	55	269	1.101
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9605	0.0604	0.4462	1.167	7.451	0.855	0.159	9.65	4	23	41	1.116
	200	0.9510	0.0477	0.5064	1.350	21.482	0.822	0.157	13.15	4	35	67	1.110
	300	0.9408	0.0438	0.5615	1.566	77.387	0.787	0.123	16.73	4	47	254	1.113
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9353	0.0372	0.3335	1.126	5.247	0.775	0.246	7.32	3	17	38	1.136
	200	0.9263	0.0293	0.3876	1.217	12.153	0.751	0.227	9.45	3	27	55	1.136
	300	0.9118	0.0270	0.4431	1.330	25.672	0.705	0.178	11.65	3	35	80	1.122
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9630	0.0746	0.4999	1.199	9.394	0.861	0.127	11.01	4	26	44	1.068
	200	0.9525	0.0588	0.5580	1.436	29.211	0.825	0.118	15.34	4	40	76	1.056
	300	0.9414	0.0538	0.6108	1.758	84.296	0.789	0.095	19.70	4	55	285	1.058
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9528	0.0600	0.4440	1.166	7.450	0.829	0.158	9.57	4	23	41	1.076
	200	0.9419	0.0474	0.5030	1.350	21.383	0.790	0.156	13.05	4	35	67	1.068
	300	0.9306	0.0435	0.5584	1.561	77.570	0.753	0.117	16.60	4	47	260	1.064
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9256	0.0369	0.3317	1.131	5.343	0.744	0.240	7.24	3	17	38	1.098
	200	0.9135	0.0291	0.3840	1.224	12.174	0.708	0.221	9.35	3	27	55	1.082
	300	0.9025	0.0268	0.4392	1.331	25.646	0.676	0.173	11.55	3	35	80	1.076

Notes: See notes to Table 1.

Table 326: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0893	0.6133	1.031	4.972	1.000	0.021	12.57	5	23	34	1.009
	200	1.0000	0.0741	0.7153	1.061	9.573	1.000	0.013	18.52	6	35.5	61	1.008
	300	1.0000	0.0654	0.7664	1.089	14.435	1.000	0.006	23.37	7	46	78	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0725	0.5580	1.025	4.065	1.000	0.036	10.96	5	20	32	1.007
	200	1.0000	0.0604	0.6651	1.047	7.505	1.000	0.022	15.85	5	31	55	1.005
	300	1.0000	0.0536	0.7203	1.068	11.263	1.000	0.014	19.87	6	40	69	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0453	0.4295	1.016	2.847	1.000	0.112	8.35	4	16	27	1.004
	200	1.0000	0.0379	0.5422	1.027	4.785	1.000	0.068	11.43	4	24	43	1.004
	300	1.0000	0.0337	0.6039	1.038	6.651	1.000	0.056	13.96	4	30	53	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0892	0.6129	1.031	4.921	1.000	0.021	12.57	5	23	34	1.003
	200	1.0000	0.0740	0.7152	1.060	9.489	1.000	0.013	18.51	6	35.5	61	1.001
	300	1.0000	0.0654	0.7664	1.088	14.389	1.000	0.006	23.36	7	46	78	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0725	0.5575	1.025	4.025	1.000	0.037	10.96	5	20	32	1.002
	200	1.0000	0.0604	0.6650	1.047	7.487	1.000	0.022	15.84	5	31	55	1.001
	300	1.0000	0.0536	0.7203	1.067	11.208	1.000	0.014	19.86	6	40	69	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0453	0.4293	1.015	2.834	1.000	0.113	8.35	4	16	27	1.003
	200	1.0000	0.0379	0.5422	1.027	4.774	1.000	0.068	11.43	4	24	43	1.002
	300	0.9999	0.0337	0.6039	1.038	6.729	1.000	0.056	13.96	4	30	53	1.002

Notes: See notes to Table 1.

Table 327: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0939	0.6422	1.016	4.242	1.000	0.005	13.01	6	22	34	1.010
	200	1.0000	0.0764	0.7459	1.027	6.980	1.000	0.002	18.98	8	33	52	1.004
	300	1.0000	0.0683	0.7955	1.040	10.364	1.000	0.001	24.22	9	43	71	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0764	0.5878	1.012	3.571	1.000	0.012	11.34	5	20	30	1.005
	200	1.0000	0.0625	0.7009	1.022	5.768	1.000	0.004	16.25	7	29	47	1.003
	300	1.0000	0.0558	0.7549	1.031	8.069	1.000	0.005	20.51	8	37	56	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0483	0.4647	1.008	2.625	1.000	0.065	8.63	4	15	25	1.002
	200	1.0000	0.0395	0.5842	1.013	3.892	1.000	0.028	11.74	5	22	40	1.001
	300	1.0000	0.0352	0.6459	1.018	5.066	1.000	0.020	14.41	5	28	47	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0938	0.6419	1.015	4.195	1.000	0.005	13.00	6	22	34	1.002
	200	1.0000	0.0764	0.7458	1.027	6.914	1.000	0.002	18.98	8	33	52	1.001
	300	1.0000	0.0683	0.7954	1.040	10.307	1.000	0.001	24.22	9	43	71	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0764	0.5876	1.012	3.551	1.000	0.012	11.33	5	20	30	1.001
	200	1.0000	0.0625	0.7009	1.022	5.719	1.000	0.004	16.25	7	29	47	1.000
	300	1.0000	0.0558	0.7548	1.031	8.018	1.000	0.005	20.51	8	37	56	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0482	0.4646	1.008	2.617	1.000	0.065	8.63	4	15	25	1.001
	200	1.0000	0.0395	0.5842	1.013	3.886	1.000	0.028	11.74	5	22	40	1.000
	300	1.0000	0.0352	0.6459	1.018	5.059	1.000	0.020	14.41	5	28	47	1.000

Notes: See notes to Table 1.

Table 328: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8756	0.0451	0.3797	1.138	5.779	0.617	0.152	7.84	2	19	40	1.065
	200	0.8484	0.0347	0.4503	1.233	12.484	0.552	0.110	10.19	2	29	62	1.065
	300	0.8211	0.0296	0.4788	1.396	44.142	0.486	0.090	12.03	2	39	81	1.057
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8481	0.0347	0.3266	1.125	4.941	0.555	0.165	6.72	2	16	38	1.061
	200	0.8235	0.0268	0.3910	1.197	9.922	0.504	0.129	8.54	2	24	57	1.058
	300	0.7910	0.0229	0.4198	1.295	20.692	0.426	0.096	9.95	2	33	76	1.049
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7818	0.0192	0.2236	1.108	3.984	0.421	0.186	4.97	1	12	33	1.051
	200	0.7525	0.0144	0.2673	1.148	6.042	0.371	0.148	5.84	1	16.5	52	1.043
	300	0.7180	0.0127	0.2948	1.203	10.273	0.323	0.109	6.64	1	22.5	59	1.040
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8694	0.0447	0.3762	1.136	5.715	0.598	0.147	7.77	2	18.5	40	1.023
	200	0.8419	0.0345	0.4476	1.229	12.282	0.536	0.108	10.12	2	29	62	1.021
	300	0.8155	0.0294	0.4755	1.389	43.766	0.470	0.088	11.96	2	39	81	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8423	0.0343	0.3236	1.124	4.885	0.540	0.161	6.66	2	16	38	1.024
	200	0.8171	0.0266	0.3889	1.194	9.607	0.488	0.125	8.49	2	24	57	1.019
	300	0.7864	0.0228	0.4164	1.292	20.609	0.416	0.094	9.89	2	33	76	1.018
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7753	0.0190	0.2222	1.109	3.979	0.411	0.180	4.93	1	12	33	1.020
	200	0.7468	0.0144	0.2655	1.149	6.028	0.360	0.143	5.80	1	16.5	52	1.016
	300	0.7131	0.0126	0.2920	1.202	10.234	0.313	0.106	6.59	1	22.5	59	1.014

Notes: See notes to Table 1.

Table 329: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.0560	0.4848	1.019	3.441	1.000	0.081	9.38	4	18	33	1.010
	200	0.9998	0.0435	0.5800	1.034	5.680	0.999	0.052	12.53	4	25	51	1.010
	300	0.9991	0.0384	0.6335	1.045	7.903	0.997	0.036	15.36	5	34	63	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0434	0.4172	1.014	2.894	0.999	0.124	8.17	4	15	27	1.009
	200	0.9998	0.0338	0.5134	1.026	4.430	0.999	0.081	10.63	4	21	48	1.008
	300	0.9990	0.0302	0.5684	1.035	6.085	0.996	0.069	12.93	4	29	62	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0241	0.2785	1.009	2.137	0.999	0.296	6.32	4	12	22	1.009
	200	0.9986	0.0190	0.3667	1.015	2.912	0.995	0.208	7.71	4	16	33	1.009
	300	0.9979	0.0172	0.4219	1.020	3.685	0.992	0.169	9.07	4	20	46	1.009
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0559	0.4842	1.018	3.380	0.999	0.082	9.37	4	18	33	1.003
	200	0.9995	0.0435	0.5796	1.034	5.649	0.998	0.052	12.52	4	25	51	1.003
	300	0.9991	0.0384	0.6334	1.045	7.879	0.997	0.036	15.36	5	34	63	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0434	0.4169	1.014	2.867	0.998	0.125	8.16	4	15	27	1.004
	200	0.9995	0.0338	0.5133	1.026	4.428	0.998	0.081	10.62	4	21	48	1.005
	300	0.9989	0.0302	0.5684	1.035	6.089	0.996	0.069	12.92	4	29	62	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9990	0.0241	0.2785	1.009	2.162	0.996	0.294	6.31	4	12	22	1.006
	200	0.9979	0.0189	0.3666	1.015	2.935	0.992	0.207	7.71	4	16	33	1.005
	300	0.9971	0.0172	0.4220	1.020	3.708	0.989	0.168	9.07	4	20	46	1.005

Notes: See notes to Table 1.

Table 330: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0589	0.5207	1.011	3.270	1.000	0.040	9.66	5	16	32	1.004
	200	1.0000	0.0464	0.6260	1.017	4.658	1.000	0.019	13.10	5	24	41	1.005
	300	1.0000	0.0394	0.6745	1.022	5.767	1.000	0.011	15.67	6	30	56	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0461	0.4556	1.008	2.825	1.000	0.075	8.43	4	15	27	1.002
	200	1.0000	0.0362	0.5587	1.014	3.887	1.000	0.041	11.09	5	21	35	1.002
	300	1.0000	0.0308	0.6109	1.017	4.685	1.000	0.023	13.11	5	26	54	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0258	0.3129	1.005	2.082	1.000	0.201	6.47	4	11	20	1.001
	200	1.0000	0.0205	0.4108	1.008	2.701	1.000	0.130	8.02	4	15	26	1.000
	300	1.0000	0.0175	0.4604	1.010	3.094	1.000	0.106	9.18	4	18.5	42	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0589	0.5206	1.010	3.243	1.000	0.040	9.65	5	16	32	1.001
	200	1.0000	0.0464	0.6258	1.017	4.630	1.000	0.020	13.09	5	24	41	1.000
	300	1.0000	0.0394	0.6744	1.022	5.738	1.000	0.011	15.66	6	30	56	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0461	0.4555	1.008	2.814	1.000	0.075	8.43	4	15	27	1.001
	200	1.0000	0.0362	0.5586	1.014	3.880	1.000	0.041	11.09	5	21	35	1.000
	300	1.0000	0.0308	0.6108	1.017	4.666	1.000	0.023	13.11	5	26	54	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0258	0.3129	1.005	2.077	1.000	0.201	6.47	4	11	20	1.000
	200	1.0000	0.0205	0.4108	1.008	2.701	1.000	0.130	8.02	4	15	26	1.000
	300	1.0000	0.0175	0.4604	1.010	3.094	1.000	0.106	9.18	4	18.5	42	1.000

Notes: See notes to Table 1.

Table 331: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6256	0.0221	0.2762	1.094	3.506	0.239	0.070	4.62	0	13	32	1.035
	200	0.5805	0.0152	0.3170	1.124	5.748	0.184	0.055	5.31	0	17	51	1.022
	300	0.5416	0.0126	0.3419	1.176	13.442	0.153	0.032	5.91	0	21	86	1.024
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5719	0.0160	0.2212	1.089	3.083	0.190	0.070	3.83	0	11	29	1.026
	200	0.5329	0.0108	0.2545	1.108	4.623	0.149	0.057	4.24	0	14	48	1.020
	300	0.4948	0.0091	0.2769	1.149	10.449	0.128	0.037	4.67	0	16	78	1.015
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4561	0.0073	0.1286	1.090	2.585	0.104	0.055	2.53	0	7	24	1.011
	200	0.4203	0.0050	0.1503	1.102	2.882	0.080	0.040	2.66	0	8	36	1.006
	300	0.3890	0.0043	0.1693	1.123	4.411	0.073	0.029	2.84	0	9.5	64	1.008
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6235	0.0218	0.2710	1.088	3.388	0.236	0.070	4.59	0	13	32	1.008
	200	0.5788	0.0151	0.3147	1.120	5.545	0.182	0.054	5.28	0	17	51	1.004
	300	0.5403	0.0126	0.3385	1.173	13.397	0.151	0.032	5.88	0	21	86	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5700	0.0158	0.2176	1.086	2.973	0.190	0.071	3.80	0	11	29	1.005
	200	0.5309	0.0107	0.2528	1.106	4.539	0.147	0.056	4.22	0	14	48	1.004
	300	0.4935	0.0091	0.2747	1.147	10.704	0.127	0.036	4.66	0	16	77	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4553	0.0073	0.1274	1.090	2.568	0.103	0.055	2.52	0	7	24	1.005
	200	0.4200	0.0050	0.1495	1.101	2.840	0.080	0.040	2.65	0	8	36	1.002
	300	0.3883	0.0043	0.1682	1.122	4.396	0.073	0.028	2.84	0	9.5	64	1.002

Notes: See notes to Table 1.

Table 332: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9854	0.0259	0.2960	1.013	2.501	0.945	0.252	6.42	4	12	26	1.010
	200	0.9808	0.0184	0.3595	1.019	3.155	0.930	0.201	7.53	4	16	29	1.006
	300	0.9723	0.0157	0.4115	1.024	3.957	0.895	0.148	8.54	4	18.5	39	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9820	0.0184	0.2304	1.011	2.201	0.931	0.346	5.70	4	10	24	1.008
	200	0.9731	0.0132	0.2883	1.017	2.736	0.902	0.270	6.47	4	13	24	1.004
	300	0.9634	0.0114	0.3367	1.020	3.407	0.864	0.205	7.21	3	16	37	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9598	0.0087	0.1282	1.010	2.158	0.854	0.481	4.68	3	8	16	1.008
	200	0.9519	0.0061	0.1628	1.013	2.454	0.832	0.424	5.01	3	9	20	1.005
	300	0.9370	0.0055	0.2003	1.016	2.929	0.787	0.351	5.37	3	11	26	1.007
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9845	0.0258	0.2959	1.013	2.460	0.942	0.251	6.42	4	12	26	1.002
	200	0.9804	0.0184	0.3591	1.019	3.088	0.929	0.200	7.52	4	16	29	1.000
	300	0.9718	0.0157	0.4113	1.024	3.934	0.893	0.149	8.53	4	18.5	39	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9808	0.0184	0.2305	1.011	2.203	0.927	0.345	5.69	4	10	24	1.001
	200	0.9724	0.0132	0.2884	1.017	2.702	0.899	0.270	6.47	4	13	24	1.000
	300	0.9628	0.0113	0.3367	1.020	3.405	0.862	0.205	7.21	3	16	37	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9588	0.0087	0.1281	1.010	2.139	0.850	0.478	4.67	3	8	16	1.003
	200	0.9510	0.0061	0.1628	1.013	2.456	0.828	0.423	5.01	3	9	20	1.001
	300	0.9358	0.0055	0.2005	1.016	2.941	0.782	0.349	5.36	3	11	26	1.002

Notes: See notes to Table 1.

Table 333: Monte Carlo findings for DGPI(d) with low (0.2) pair-wise collinearity of signal variables

$\omega = 0.2$, $T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0276	0.3266	1.007	2.287	0.999	0.197	6.65	4	11	22	1.004
	200	0.9994	0.0198	0.4021	1.010	2.816	0.998	0.144	7.88	4	14	29	1.006
	300	0.9996	0.0160	0.4435	1.012	3.319	0.999	0.101	8.73	4	17	36	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0198	0.2561	1.005	1.992	0.999	0.298	5.90	4	10	19	1.001
	200	0.9993	0.0144	0.3265	1.008	2.410	0.998	0.219	6.81	4	12	28	1.003
	300	0.9995	0.0116	0.3663	1.009	2.819	0.998	0.169	7.44	4	14	29	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0093	0.1395	1.003	1.603	0.997	0.532	4.89	4	8	13	1.001
	200	0.9979	0.0068	0.1895	1.005	1.874	0.992	0.428	5.32	4	9	20	1.001
	300	0.9988	0.0056	0.2174	1.006	2.149	0.996	0.382	5.65	4	10	22	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0276	0.3263	1.007	2.262	0.999	0.197	6.65	4	11	22	1.000
	200	0.9994	0.0198	0.4016	1.010	2.774	0.998	0.144	7.88	4	14	29	1.000
	300	0.9996	0.0160	0.4434	1.012	3.313	0.999	0.102	8.73	4	17	36	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.0198	0.2561	1.005	1.992	0.999	0.298	5.90	4	10	19	1.001
	200	0.9993	0.0144	0.3262	1.007	2.385	0.998	0.220	6.81	4	12	28	1.001
	300	0.9995	0.0116	0.3662	1.009	2.814	0.998	0.170	7.44	4	14	29	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0093	0.1395	1.003	1.597	0.997	0.532	4.89	4	8	13	1.001
	200	0.9979	0.0068	0.1894	1.005	1.871	0.992	0.429	5.32	4	9	20	1.001
	300	0.9986	0.0056	0.2173	1.005	2.148	0.995	0.381	5.65	4	10	22	1.001

Notes: See notes to Table 1.

Table 334: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0046	0.0661	1.012	1.099	1.000	0.774	4.44	4	7	20	1.012
	200	0.9999	0.0033	0.0833	1.018	1.203	1.000	0.756	4.64	4	8	21	1.011
	300	1.0000	0.0022	0.0753	1.019	1.149	1.000	0.782	4.64	4	8	31	1.014
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0027	0.0415	1.007	1.045	1.000	0.852	4.26	4	6	20	1.007
	200	0.9999	0.0020	0.0546	1.010	1.097	1.000	0.830	4.39	4	6	17	1.009
	300	1.0000	0.0013	0.0509	1.011	1.079	1.000	0.844	4.40	4	6	25	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0009	0.0141	1.002	1.022	1.000	0.944	4.08	4	5	17	1.002
	200	0.9999	0.0007	0.0211	1.004	1.034	1.000	0.926	4.13	4	5	10	1.004
	300	1.0000	0.0004	0.0186	1.003	1.022	1.000	0.936	4.12	4	5	14	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0044	0.0641	1.010	1.061	1.000	0.782	4.43	4	7	20	1.002
	200	0.9999	0.0032	0.0816	1.016	1.184	1.000	0.761	4.63	4	8	21	1.004
	300	1.0000	0.0021	0.0729	1.015	1.103	1.000	0.793	4.63	4	8	31	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0027	0.0403	1.006	1.038	1.000	0.858	4.26	4	6	20	1.002
	200	0.9999	0.0019	0.0532	1.009	1.075	1.000	0.835	4.38	4	6	17	1.003
	300	1.0000	0.0013	0.0496	1.009	1.057	1.000	0.850	4.39	4	6	25	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0009	0.0137	1.002	1.014	1.000	0.946	4.08	4	5	17	1.000
	200	0.9999	0.0006	0.0204	1.003	1.008	1.000	0.928	4.13	4	5	10	1.001
	300	1.0000	0.0004	0.0181	1.003	1.010	1.000	0.938	4.12	4	5	14	1.000

Notes: See notes to Table 1.

Table 335: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0045	0.0733	1.003	1.068	1.000	0.722	4.43	4	6	11	1.010
	200	1.0000	0.0027	0.0855	1.003	1.102	1.000	0.692	4.53	4	7	15	1.008
	300	1.0000	0.0021	0.0939	1.004	1.106	1.000	0.677	4.62	4	7	18	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0026	0.0451	1.002	1.043	1.000	0.814	4.25	4	5	9	1.006
	200	1.0000	0.0016	0.0525	1.002	1.061	1.000	0.796	4.31	4	6	12	1.006
	300	1.0000	0.0012	0.0582	1.002	1.056	1.000	0.789	4.36	4	6	15	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0134	1.000	1.011	1.000	0.940	4.07	4	5	7	1.001
	200	1.0000	0.0004	0.0154	1.001	1.017	1.000	0.932	4.08	4	5	8	1.001
	300	1.0000	0.0004	0.0202	1.001	1.020	1.000	0.917	4.11	4	5	10	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0044	0.0716	1.003	1.049	1.000	0.728	4.42	4	6	11	1.000
	200	1.0000	0.0027	0.0842	1.003	1.074	1.000	0.697	4.52	4	7	15	1.001
	300	1.0000	0.0021	0.0928	1.004	1.084	1.000	0.682	4.62	4	7	18	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0026	0.0441	1.001	1.027	1.000	0.818	4.25	4	5	9	1.000
	200	1.0000	0.0015	0.0515	1.002	1.045	1.000	0.800	4.30	4	6	12	1.001
	300	1.0000	0.0012	0.0575	1.002	1.047	1.000	0.793	4.36	4	6	15	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0133	1.000	1.010	1.000	0.940	4.07	4	5	7	1.000
	200	1.0000	0.0004	0.0153	1.001	1.006	1.000	0.933	4.08	4	5	8	1.000
	300	1.0000	0.0004	0.0201	1.001	1.017	1.000	0.917	4.11	4	5	10	1.000

Notes: See notes to Table 1.

Table 336: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0045	0.0759	1.002	1.054	1.000	0.698	4.43	4	6	11	1.008
	200	1.0000	0.0028	0.0921	1.001	1.073	1.000	0.661	4.56	4	7	13	1.007
	300	1.0000	0.0020	0.0947	1.002	1.073	1.000	0.660	4.59	4	7	18	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0025	0.0454	1.001	1.043	1.000	0.804	4.24	4	5	8	1.004
	200	1.0000	0.0018	0.0598	1.001	1.051	1.000	0.766	4.35	4	6	10	1.005
	300	1.0000	0.0012	0.0621	1.001	1.045	1.000	0.758	4.36	4	6	14	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0007	0.0134	1.000	1.007	1.000	0.938	4.07	4	5	8	1.000
	200	1.0000	0.0005	0.0186	1.000	1.017	1.000	0.921	4.10	4	5	8	1.001
	300	1.0000	0.0004	0.0207	1.000	1.016	1.000	0.909	4.11	4	5	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0044	0.0743	1.002	1.048	1.000	0.705	4.42	4	6	11	1.000
	200	1.0000	0.0028	0.0909	1.001	1.056	1.000	0.666	4.55	4	7	13	1.001
	300	1.0000	0.0020	0.0937	1.002	1.059	1.000	0.664	4.59	4	7	18	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0025	0.0446	1.001	1.039	1.000	0.807	4.24	4	5	8	1.000
	200	1.0000	0.0017	0.0589	1.001	1.037	1.000	0.770	4.34	4	6	10	1.000
	300	1.0000	0.0012	0.0616	1.001	1.035	1.000	0.760	4.36	4	6	14	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0007	0.0134	1.000	1.007	1.000	0.938	4.07	4	5	8	1.000
	200	1.0000	0.0005	0.0184	1.000	1.015	1.000	0.921	4.10	4	5	8	1.000
	300	1.0000	0.0004	0.0205	1.000	1.014	1.000	0.910	4.11	4	5	8	1.000

Notes: See notes to Table 1.

Table 337: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0036	0.0534	1.013	1.172	0.998	0.811	4.34	4	6	21	1.013
	200	0.9994	0.0020	0.0534	1.015	1.103	0.998	0.823	4.39	4	6	24	1.011
	300	0.9993	0.0015	0.0571	1.014	1.161	0.998	0.811	4.43	4	6	29	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9990	0.0021	0.0329	1.010	1.122	0.997	0.875	4.20	4	5	21	1.012
	200	0.9989	0.0013	0.0358	1.011	1.083	0.997	0.873	4.25	4	5	20	1.007
	300	0.9988	0.0008	0.0343	1.009	1.077	0.996	0.881	4.24	4	5	23	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9979	0.0006	0.0093	1.002	1.000	0.995	0.959	4.05	4	4	14	1.003
	200	0.9979	0.0005	0.0131	1.004	1.016	0.994	0.946	4.08	4	4	17	1.001
	300	0.9971	0.0003	0.0133	1.004	1.030	0.993	0.943	4.07	4	4	17	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9993	0.0034	0.0512	1.010	1.045	0.998	0.820	4.33	4	6	21	1.002
	200	0.9994	0.0019	0.0513	1.013	1.067	0.998	0.832	4.38	4	6	24	1.001
	300	0.9993	0.0014	0.0555	1.013	1.124	0.998	0.817	4.42	4	6	29	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9990	0.0020	0.0307	1.007	1.027	0.997	0.885	4.19	4	5	21	1.000
	200	0.9989	0.0012	0.0344	1.009	1.045	0.997	0.879	4.24	4	5	20	1.001
	300	0.9988	0.0008	0.0335	1.008	1.056	0.996	0.884	4.24	4	5	23	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9979	0.0006	0.0088	1.002	0.997	0.995	0.961	4.04	4	4	14	1.000
	200	0.9979	0.0004	0.0130	1.004	1.014	0.994	0.946	4.08	4	4	17	1.001
	300	0.9971	0.0003	0.0128	1.003	1.003	0.993	0.945	4.07	4	4	17	1.000

Notes: See notes to Table 1.

Table 338: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0031	0.0513	1.002	1.043	1.000	0.802	4.30	4	6	12	1.006
	200	1.0000	0.0019	0.0608	1.003	1.066	1.000	0.768	4.37	4	6	18	1.002
	300	1.0000	0.0014	0.0679	1.004	1.096	1.000	0.750	4.42	4	6	16	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0018	0.0306	1.001	1.029	1.000	0.875	4.17	4	5	11	1.004
	200	1.0000	0.0011	0.0373	1.002	1.067	1.000	0.850	4.22	4	5	15	1.002
	300	1.0000	0.0008	0.0427	1.003	1.065	1.000	0.832	4.25	4	5	12	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0005	0.0087	1.001	1.012	1.000	0.961	4.05	4	4	9	1.002
	200	1.0000	0.0003	0.0099	1.001	1.011	1.000	0.957	4.05	4	4	9	1.001
	300	1.0000	0.0003	0.0149	1.001	1.029	1.000	0.934	4.08	4	5	9	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0031	0.0503	1.002	1.038	1.000	0.807	4.30	4	6	12	1.001
	200	1.0000	0.0019	0.0604	1.003	1.064	1.000	0.770	4.37	4	6	18	1.000
	300	1.0000	0.0014	0.0668	1.003	1.073	1.000	0.754	4.41	4	6	16	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0018	0.0299	1.001	1.026	1.000	0.878	4.17	4	5	11	1.000
	200	1.0000	0.0011	0.0370	1.002	1.044	1.000	0.851	4.21	4	5	15	1.000
	300	1.0000	0.0008	0.0422	1.002	1.049	1.000	0.834	4.25	4	5	12	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0005	0.0085	1.000	1.009	1.000	0.962	4.05	4	4	9	1.001
	200	1.0000	0.0003	0.0098	1.001	1.011	1.000	0.957	4.05	4	4	9	1.000
	300	1.0000	0.0003	0.0144	1.001	1.015	1.000	0.936	4.08	4	5	9	1.000

Notes: See notes to Table 1.

Table 339: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0034	0.0580	1.002	1.058	1.000	0.764	4.33	4	6	12	1.006
	200	1.0000	0.0021	0.0702	1.002	1.075	1.000	0.736	4.41	4	6	12	1.008
	300	1.0000	0.0013	0.0681	1.002	1.076	1.000	0.733	4.39	4	6	12	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0019	0.0334	1.001	1.039	1.000	0.854	4.18	4	5	9	1.005
	200	1.0000	0.0012	0.0433	1.001	1.051	1.000	0.825	4.24	4	5	9	1.005
	300	1.0000	0.0008	0.0421	1.002	1.052	1.000	0.823	4.23	4	5	9	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0004	0.0082	1.000	1.012	1.000	0.961	4.04	4	4	6	1.001
	200	1.0000	0.0004	0.0136	1.001	1.019	1.000	0.940	4.07	4	5	7	1.002
	300	1.0000	0.0002	0.0129	1.001	1.019	1.000	0.941	4.07	4	5	8	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0034	0.0570	1.002	1.052	1.000	0.768	4.32	4	6	12	1.001
	200	1.0000	0.0021	0.0690	1.002	1.062	1.000	0.741	4.41	4	6	12	1.001
	300	1.0000	0.0013	0.0673	1.002	1.070	1.000	0.736	4.39	4	6	12	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0018	0.0325	1.001	1.031	1.000	0.858	4.18	4	5	9	1.001
	200	1.0000	0.0012	0.0426	1.001	1.045	1.000	0.828	4.24	4	5	9	1.001
	300	1.0000	0.0008	0.0411	1.001	1.042	1.000	0.827	4.23	4	5	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0004	0.0081	1.000	1.011	1.000	0.961	4.04	4	4	6	1.001
	200	1.0000	0.0004	0.0134	1.000	1.017	1.000	0.941	4.07	4	5	7	1.001
	300	1.0000	0.0002	0.0129	1.001	1.018	1.000	0.941	4.07	4	5	8	1.000

Notes: See notes to Table 1.

Table 340: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9726	0.0025	0.0406	1.009	1.015	0.941	0.800	4.13	3	5	14	1.006
	200	0.9536	0.0015	0.0441	1.013	1.031	0.904	0.763	4.10	3	6	17	1.008
	300	0.9490	0.0011	0.0492	1.013	0.982	0.902	0.760	4.13	2	6	21	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9609	0.0014	0.0242	1.005	0.977	0.918	0.838	3.98	3	5	11	1.004
	200	0.9385	0.0008	0.0256	1.008	0.966	0.879	0.799	3.91	2	5	11	1.008
	300	0.9354	0.0007	0.0334	1.009	0.939	0.879	0.782	3.95	2	5	19	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9274	0.0004	0.0077	1.004	0.936	0.860	0.830	3.75	2	4	7	1.002
	200	0.8934	0.0002	0.0090	1.007	0.887	0.809	0.782	3.62	1	4	8	1.000
	300	0.8928	0.0002	0.0126	1.007	0.888	0.805	0.772	3.63	1	4	14	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9726	0.0025	0.0395	1.008	0.974	0.941	0.805	4.13	3	5	14	1.001
	200	0.9536	0.0014	0.0422	1.011	1.008	0.904	0.771	4.09	3	6	17	1.000
	300	0.9490	0.0011	0.0483	1.012	0.961	0.902	0.764	4.12	2	6	21	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9609	0.0014	0.0236	1.005	0.954	0.918	0.841	3.98	3	5	11	1.001
	200	0.9385	0.0007	0.0239	1.007	0.938	0.879	0.805	3.90	2	5	11	1.000
	300	0.9354	0.0007	0.0328	1.009	0.925	0.879	0.784	3.94	2	5	19	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9274	0.0004	0.0074	1.004	0.912	0.860	0.832	3.75	2	4	7	1.001
	200	0.8934	0.0002	0.0090	1.007	0.887	0.809	0.782	3.62	1	4	8	1.000
	300	0.8928	0.0002	0.0123	1.007	0.870	0.805	0.773	3.63	1	4	14	1.000

Notes: See notes to Table 1.

Table 341: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0024	0.0410	1.003	1.056	1.000	0.831	4.23	4	5	9	1.006
	200	1.0000	0.0013	0.0443	1.003	1.051	1.000	0.826	4.26	4	6	11	1.003
	300	1.0000	0.0009	0.0447	1.002	1.061	1.000	0.828	4.27	4	6	15	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0013	0.0236	1.002	1.033	1.000	0.896	4.13	4	5	7	1.002
	200	1.0000	0.0008	0.0265	1.002	1.031	1.000	0.890	4.15	4	5	11	1.002
	300	1.0000	0.0005	0.0263	1.002	1.043	1.000	0.892	4.15	4	5	12	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0063	1.001	1.017	1.000	0.971	4.03	4	4	6	1.002
	200	1.0000	0.0002	0.0084	1.001	1.013	1.000	0.963	4.05	4	4	11	1.001
	300	1.0000	0.0001	0.0075	1.001	1.018	1.000	0.966	4.04	4	4	9	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0023	0.0400	1.003	1.047	1.000	0.835	4.22	4	5	9	1.001
	200	1.0000	0.0013	0.0438	1.003	1.047	1.000	0.828	4.26	4	6	11	1.000
	300	1.0000	0.0009	0.0443	1.002	1.054	1.000	0.830	4.27	4	6	15	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0013	0.0232	1.002	1.030	1.000	0.898	4.12	4	5	7	1.000
	200	1.0000	0.0007	0.0261	1.002	1.027	1.000	0.892	4.15	4	5	11	1.000
	300	1.0000	0.0005	0.0261	1.002	1.041	1.000	0.893	4.15	4	5	12	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0060	1.001	1.013	1.000	0.972	4.03	4	4	6	1.000
	200	1.0000	0.0002	0.0082	1.001	1.011	1.000	0.964	4.04	4	4	11	1.000
	300	1.0000	0.0001	0.0075	1.001	1.018	1.000	0.966	4.04	4	4	9	1.001

Notes: See notes to Table 1.

Table 342: Monte Carlo findings for DGPI(d) with high (0.8) pair-wise collinearity of signal variables

$\omega = 0.8$, $T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0021	0.0370	1.001	1.051	1.000	0.843	4.20	4	5	9	1.004
	200	1.0000	0.0011	0.0409	1.002	1.073	1.000	0.824	4.22	4	5	9	1.003
	300	1.0000	0.0008	0.0439	1.002	1.069	1.000	0.817	4.25	4	5	10	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0012	0.0218	1.001	1.027	1.000	0.902	4.11	4	5	7	1.003
	200	1.0000	0.0006	0.0230	1.001	1.046	1.000	0.895	4.12	4	5	8	1.001
	300	1.0000	0.0005	0.0248	1.001	1.041	1.000	0.894	4.14	4	5	9	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0003	0.0059	1.000	1.009	1.000	0.973	4.03	4	4	6	1.001
	200	1.0000	0.0001	0.0057	1.000	1.015	1.000	0.973	4.03	4	4	6	1.000
	300	1.0000	0.0001	0.0067	1.000	1.011	1.000	0.970	4.04	4	4	7	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0021	0.0362	1.001	1.041	1.000	0.846	4.20	4	5	9	1.000
	200	1.0000	0.0011	0.0404	1.002	1.071	1.000	0.826	4.22	4	5	9	1.000
	300	1.0000	0.0008	0.0430	1.002	1.059	1.000	0.821	4.24	4	5	10	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0012	0.0212	1.001	1.021	1.000	0.904	4.11	4	5	7	1.000
	200	1.0000	0.0006	0.0228	1.001	1.045	1.000	0.896	4.12	4	5	8	1.000
	300	1.0000	0.0004	0.0243	1.001	1.037	1.000	0.897	4.13	4	5	9	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0003	0.0058	1.000	1.008	1.000	0.973	4.03	4	4	6	1.000
	200	1.0000	0.0001	0.0057	1.000	1.015	1.000	0.973	4.03	4	4	6	1.000
	300	1.0000	0.0001	0.0066	1.000	1.009	1.000	0.970	4.03	4	4	7	1.000

Notes: See notes to Table 1.

6.2 Findings for designs with non-zero correlations between signal and pseudo-signal variables

Table 343: MC findings for DGPII(a)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method										
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0396	0.4365	1.067	3.416	0.997	0.001	0.940	0.470	7.80	6	14	37	1.013
	200	0.9989	0.0233	0.4521	1.094	4.529	0.996	0.002	0.924	0.448	8.56	6	19	40	1.013
	300	0.9984	0.0185	0.4713	1.140	7.737	0.994	0.001	0.914	0.421	9.46	6	24	65	1.012
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9989	0.0336	0.4069	1.053	2.904	0.996	0.001	0.922	0.547	7.23	6	12	34	1.007
	200	0.9988	0.0192	0.4184	1.072	3.584	0.995	0.002	0.906	0.542	7.77	5	16	36	1.006
	300	0.9975	0.0150	0.4363	1.099	5.669	0.991	0.002	0.893	0.502	8.43	6	19	57	1.005
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9974	0.0254	0.3577	1.037	2.351	0.991	0.006	0.871	0.661	6.43	5	9	28	1.002
	200	0.9969	0.0137	0.3658	1.045	2.583	0.988	0.008	0.844	0.632	6.68	5	11	25	1.003
	300	0.9958	0.0103	0.3771	1.059	3.362	0.984	0.009	0.844	0.606	7.02	5	12	46	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0394	0.4357	1.065	3.280	0.997	0.001	0.940	0.474	7.78	6	14	37	1.002
	200	0.9989	0.0232	0.4513	1.092	4.413	0.996	0.002	0.924	0.452	8.54	6	19	40	1.002
	300	0.9984	0.0184	0.4704	1.138	7.714	0.994	0.001	0.914	0.425	9.45	6	24	65	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9989	0.0336	0.4065	1.052	2.838	0.996	0.001	0.922	0.550	7.22	6	12	34	1.001
	200	0.9986	0.0192	0.4180	1.071	3.533	0.995	0.002	0.905	0.544	7.76	5	16	36	1.002
	300	0.9975	0.0150	0.4360	1.098	5.650	0.991	0.002	0.893	0.503	8.42	6	19	57	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0254	0.3576	1.037	2.340	0.991	0.006	0.871	0.662	6.43	5	9	28	1.001
	200	0.9969	0.0137	0.3656	1.044	2.575	0.988	0.008	0.844	0.633	6.67	5	11	25	1.002
	300	0.9955	0.0102	0.3770	1.058	3.331	0.983	0.009	0.843	0.606	7.01	5	12	46	1.001

Notes: See notes to Table 46.

Table 344: MC findings for DGPII(a)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0435	0.4767	1.013	2.654	1.000	0.000	1.000	0.290	8.18	6	13	20	1.005
	200	1.0000	0.0268	0.5138	1.017	2.945	1.000	0.000	1.000	0.248	9.26	6	17	40	1.006
	300	1.0000	0.0202	0.5352	1.021	3.437	1.000	0.000	1.000	0.215	9.97	6	19	40	1.007
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0372	0.4436	1.011	2.464	1.000	0.000	1.000	0.394	7.58	6	12	19	1.004
	200	1.0000	0.0221	0.4743	1.013	2.613	1.000	0.000	0.999	0.336	8.33	6	15	35	1.002
	300	1.0000	0.0163	0.4914	1.016	2.890	1.000	0.000	1.000	0.307	8.82	6	16	36	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0284	0.3900	1.008	2.222	1.000	0.000	1.000	0.617	6.72	6	9	14	1.002
	200	1.0000	0.0156	0.4086	1.009	2.206	1.000	0.000	0.999	0.552	7.06	6	11	23	1.002
	300	1.0000	0.0112	0.4198	1.010	2.370	1.000	0.000	1.000	0.533	7.30	6	12	25	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0434	0.4764	1.013	2.632	1.000	0.000	1.000	0.291	8.17	6	13	20	1.001
	200	1.0000	0.0268	0.5135	1.017	2.915	1.000	0.000	1.000	0.249	9.25	6	17	40	1.001
	300	1.0000	0.0201	0.5349	1.021	3.287	1.000	0.000	1.000	0.217	9.96	6	19	40	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0372	0.4434	1.011	2.450	1.000	0.000	1.000	0.395	7.57	6	12	19	1.001
	200	1.0000	0.0221	0.4742	1.013	2.591	1.000	0.000	0.999	0.337	8.33	6	15	35	1.000
	300	1.0000	0.0163	0.4912	1.016	2.869	1.000	0.000	1.000	0.308	8.82	6	16	36	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0284	0.3898	1.008	2.210	1.000	0.000	1.000	0.619	6.72	6	9	14	1.000
	200	1.0000	0.0156	0.4085	1.009	2.181	1.000	0.000	0.999	0.552	7.06	6	11	23	1.000
	300	1.0000	0.0112	0.4197	1.010	2.363	1.000	0.000	1.000	0.533	7.30	6	12	25	1.000

Notes: See notes to Table 46.

Table 345: MC findings for DGPII(a)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0444	0.4852	1.007	2.431	1.000	0.000	1.000	0.237	8.26	6	13	22	1.008
	200	1.0000	0.0271	0.5301	1.009	2.720	1.000	0.000	1.000	0.164	9.32	6	15	30	1.005
	300	1.0000	0.0215	0.5597	1.010	3.011	1.000	0.000	1.000	0.144	10.35	6	19	37	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0377	0.4497	1.006	2.287	1.000	0.000	1.000	0.345	7.62	6	11	19	1.007
	200	1.0000	0.0224	0.4886	1.007	2.471	1.000	0.000	1.000	0.259	8.40	6	13	28	1.002
	300	1.0000	0.0173	0.5138	1.008	2.649	1.000	0.000	1.000	0.219	9.13	6	16	33	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0289	0.3947	1.004	2.066	1.000	0.000	1.000	0.586	6.77	6	9	15	1.001
	200	1.0000	0.0157	0.4150	1.004	2.148	1.000	0.000	1.000	0.488	7.08	6	10	21	1.001
	300	1.0000	0.0117	0.4341	1.005	2.210	1.000	0.000	1.000	0.445	7.46	6	11	24	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0443	0.4848	1.007	2.404	1.000	0.000	1.000	0.240	8.25	6	13	22	1.002
	200	1.0000	0.0271	0.5298	1.008	2.703	1.000	0.000	1.000	0.166	9.32	6	15	30	1.000
	300	1.0000	0.0214	0.5596	1.010	3.000	1.000	0.000	1.000	0.144	10.35	6	19	37	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0377	0.4492	1.006	2.257	1.000	0.000	1.000	0.348	7.62	6	11	19	1.001
	200	1.0000	0.0224	0.4884	1.007	2.465	1.000	0.000	1.000	0.260	8.40	6	13	28	1.000
	300	1.0000	0.0173	0.5138	1.008	2.646	1.000	0.000	1.000	0.219	9.13	6	16	33	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0289	0.3946	1.004	2.062	1.000	0.000	1.000	0.586	6.77	6	9	15	1.001
	200	1.0000	0.0157	0.4150	1.004	2.147	1.000	0.000	1.000	0.488	7.08	6	10	21	1.000
	300	1.0000	0.0117	0.4341	1.005	2.210	1.000	0.000	1.000	0.445	7.46	6	11	24	1.000

Notes: See notes to Table 46.

Table 346: MC findings for DGPII(a)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method										
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9883	0.0310	0.3877	1.060	2.796	0.957	0.007	0.805	0.491	6.93	5	12	27	1.016
	200	0.9831	0.0172	0.3935	1.068	3.438	0.947	0.013	0.758	0.438	7.31	5	15	50	1.008
	300	0.9836	0.0124	0.4035	1.078	5.714	0.946	0.011	0.740	0.419	7.60	5	16	49	1.009
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9844	0.0267	0.3600	1.046	2.433	0.946	0.015	0.763	0.543	6.50	5	10	25	1.010
	200	0.9785	0.0143	0.3627	1.052	2.635	0.933	0.017	0.721	0.481	6.73	4	12	46	1.004
	300	0.9783	0.0101	0.3692	1.062	3.325	0.929	0.020	0.695	0.447	6.91	4	13	44	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9701	0.0203	0.3112	1.031	2.061	0.904	0.034	0.670	0.568	5.83	4	8	18	1.001
	200	0.9598	0.0105	0.3111	1.036	2.181	0.878	0.031	0.612	0.492	5.89	4	8	36	1.002
	300	0.9624	0.0071	0.3101	1.037	2.365	0.889	0.044	0.603	0.478	5.94	4	9	32	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9883	0.0309	0.3864	1.056	2.659	0.957	0.007	0.805	0.498	6.92	5	12	27	1.002
	200	0.9831	0.0172	0.3928	1.067	3.414	0.947	0.013	0.758	0.441	7.30	5	15	50	1.001
	300	0.9835	0.0123	0.4028	1.076	5.667	0.946	0.011	0.740	0.421	7.59	5	16	49	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9844	0.0266	0.3591	1.044	2.365	0.946	0.015	0.763	0.546	6.49	5	10	25	1.002
	200	0.9785	0.0143	0.3625	1.051	2.615	0.933	0.017	0.721	0.484	6.72	4	12	46	1.001
	300	0.9783	0.0101	0.3687	1.061	3.306	0.929	0.020	0.695	0.449	6.90	4	13	44	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9701	0.0203	0.3111	1.030	2.047	0.904	0.034	0.670	0.569	5.83	4	8	18	1.000
	200	0.9598	0.0105	0.3109	1.036	2.167	0.878	0.031	0.612	0.492	5.89	4	8	36	1.001
	300	0.9624	0.0070	0.3098	1.036	2.337	0.889	0.044	0.603	0.479	5.93	4	9	32	1.000

Notes: See notes to Table 46.

Table 347: MC findings for DGPII(a)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0353	0.4327	1.012	2.466	1.000	0.000	1.000	0.427	7.39	6	11	22	1.009
	200	1.0000	0.0200	0.4575	1.014	2.563	1.000	0.000	0.999	0.371	7.92	6	13	30	1.005
	300	1.0000	0.0145	0.4717	1.016	2.645	1.000	0.000	1.000	0.348	8.28	6	15	31	1.003
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0306	0.4046	1.010	2.330	1.000	0.000	0.999	0.539	6.94	6	10	20	1.007
	200	1.0000	0.0169	0.4246	1.012	2.368	1.000	0.000	0.999	0.487	7.31	6	11	23	1.003
	300	1.0000	0.0119	0.4330	1.013	2.388	1.000	0.000	1.000	0.470	7.51	6	12	26	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0248	0.3649	1.007	2.163	1.000	0.000	0.998	0.755	6.38	6	8	15	1.002
	200	1.0000	0.0129	0.3751	1.008	2.137	1.000	0.000	0.998	0.700	6.52	6	9	16	1.001
	300	1.0000	0.0088	0.3797	1.009	2.096	1.000	0.000	0.998	0.690	6.61	6	9	16	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0352	0.4321	1.012	2.420	1.000	0.000	1.000	0.431	7.38	6	11	22	1.001
	200	1.0000	0.0200	0.4572	1.014	2.536	1.000	0.000	0.999	0.373	7.92	6	13	30	1.001
	300	1.0000	0.0144	0.4716	1.016	2.620	1.000	0.000	1.000	0.349	8.28	6	15	31	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0306	0.4041	1.010	2.293	1.000	0.000	0.999	0.541	6.93	6	10	20	1.001
	200	1.0000	0.0169	0.4243	1.011	2.351	1.000	0.000	0.999	0.488	7.31	6	11	23	1.001
	300	1.0000	0.0119	0.4330	1.013	2.368	1.000	0.000	1.000	0.470	7.51	6	12	26	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0248	0.3648	1.007	2.159	1.000	0.000	0.998	0.756	6.38	6	8	15	1.001
	200	1.0000	0.0129	0.3751	1.008	2.130	1.000	0.000	0.998	0.700	6.52	6	9	16	1.001
	300	1.0000	0.0088	0.3797	1.009	2.096	1.000	0.000	0.998	0.690	6.61	6	9	16	1.000

Notes: See notes to Table 46.

Table 348: MC findings for DGPII(a)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0356	0.4381	1.006	2.300	1.000	0.000	1.000	0.383	7.42	6	11	24	1.006
	200	1.0000	0.0201	0.4661	1.009	2.483	1.000	0.000	1.000	0.297	7.95	6	13	23	1.004
	300	1.0000	0.0150	0.4860	1.009	2.751	1.000	0.000	1.000	0.269	8.43	6	14	27	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0307	0.4075	1.005	2.182	1.000	0.000	1.000	0.508	6.95	6	10	22	1.004
	200	1.0000	0.0167	0.4275	1.007	2.317	1.000	0.000	1.000	0.432	7.28	6	11	18	1.002
	300	1.0000	0.0124	0.4471	1.008	2.515	1.000	0.000	1.000	0.383	7.66	6	12	24	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0246	0.3640	1.004	1.988	1.000	0.000	1.000	0.761	6.36	6	8	17	1.001
	200	1.0000	0.0130	0.3781	1.005	2.105	1.000	0.000	1.000	0.676	6.55	6	9	15	1.001
	300	1.0000	0.0091	0.3885	1.005	2.198	1.000	0.000	1.000	0.623	6.70	6	9	16	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0356	0.4378	1.006	2.270	1.000	0.000	1.000	0.385	7.42	6	11	24	1.001
	200	1.0000	0.0201	0.4659	1.009	2.467	1.000	0.000	1.000	0.299	7.94	6	13	23	1.000
	300	1.0000	0.0149	0.4857	1.009	2.731	1.000	0.000	1.000	0.270	8.42	6	14	27	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0307	0.4072	1.005	2.168	1.000	0.000	1.000	0.510	6.94	6	10	22	1.001
	200	1.0000	0.0167	0.4274	1.007	2.308	1.000	0.000	1.000	0.432	7.28	6	11	18	1.000
	300	1.0000	0.0124	0.4469	1.007	2.506	1.000	0.000	1.000	0.384	7.66	6	12	24	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0246	0.3639	1.004	1.978	1.000	0.000	1.000	0.762	6.36	6	8	17	1.000
	200	1.0000	0.0130	0.3780	1.005	2.102	1.000	0.000	1.000	0.676	6.55	6	9	15	1.000
	300	1.0000	0.0091	0.3885	1.005	2.198	1.000	0.000	1.000	0.623	6.70	6	9	16	1.000

Notes: See notes to Table 46.

Table 349: MC findings for DGPII(a)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8853	0.0200	0.3024	1.035	1.992	0.715	0.038	0.451	0.325	5.46	2	9	22	1.008
	200	0.8508	0.0107	0.3115	1.044	2.139	0.651	0.034	0.411	0.270	5.51	2	10	31	1.006
	300	0.8314	0.0074	0.3100	1.052	2.809	0.609	0.039	0.355	0.243	5.51	1	11	42	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8550	0.0168	0.2718	1.030	1.833	0.659	0.050	0.393	0.307	5.03	1	8	21	1.004
	200	0.8154	0.0085	0.2740	1.036	1.846	0.596	0.045	0.342	0.254	4.93	1	8	25	1.005
	300	0.7945	0.0059	0.2771	1.043	2.111	0.549	0.041	0.307	0.238	4.91	1	9	34	1.006
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7745	0.0117	0.2177	1.028	1.565	0.528	0.061	0.271	0.245	4.22	1	6	17	1.002
	200	0.7313	0.0056	0.2114	1.033	1.520	0.477	0.052	0.245	0.214	4.03	0	6	16	1.002
	300	0.7068	0.0038	0.2136	1.036	1.562	0.432	0.051	0.217	0.187	3.96	0	6.5	27	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8853	0.0199	0.3016	1.034	1.960	0.715	0.038	0.451	0.327	5.45	2	9	22	1.001
	200	0.8508	0.0107	0.3109	1.042	2.039	0.651	0.035	0.411	0.272	5.50	2	10	31	1.001
	300	0.8314	0.0074	0.3088	1.048	2.655	0.609	0.039	0.355	0.246	5.50	1	11	42	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8550	0.0167	0.2713	1.030	1.822	0.659	0.050	0.393	0.308	5.03	1	8	21	1.001
	200	0.8154	0.0085	0.2733	1.035	1.806	0.596	0.045	0.342	0.255	4.93	1	8	25	1.001
	300	0.7945	0.0058	0.2763	1.042	2.088	0.549	0.041	0.307	0.239	4.91	1	9	34	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7745	0.0117	0.2174	1.027	1.557	0.528	0.061	0.271	0.245	4.22	1	6	17	1.000
	200	0.7313	0.0056	0.2111	1.033	1.513	0.477	0.053	0.245	0.214	4.03	0	6	16	1.000
	300	0.7068	0.0038	0.2133	1.036	1.558	0.432	0.051	0.217	0.187	3.96	0	6	27	1.001

Notes: See notes to Table 46.

Table 350: MC findings for DGPII(a)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0281	0.3873	1.010	2.327	1.000	0.001	0.979	0.606	6.70	6	9	15	1.006
	200	0.9999	0.0146	0.3949	1.012	2.351	1.000	0.001	0.978	0.584	6.86	6	10	23	1.008
	300	0.9999	0.0101	0.4030	1.013	2.299	1.000	0.001	0.975	0.555	7.00	6	10	24	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0254	0.3682	1.009	2.210	0.999	0.001	0.972	0.697	6.44	6	8	13	1.002
	200	0.9999	0.0129	0.3718	1.009	2.204	1.000	0.001	0.965	0.682	6.53	6	9	19	1.002
	300	0.9999	0.0089	0.3792	1.011	2.177	1.000	0.002	0.966	0.654	6.63	6	9	21	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0218	0.3385	1.006	2.047	0.997	0.002	0.934	0.823	6.09	5	7	12	1.001
	200	0.9995	0.0109	0.3414	1.007	2.050	0.998	0.004	0.936	0.805	6.13	5	7	14	1.001
	300	0.9996	0.0073	0.3428	1.008	2.009	0.999	0.004	0.931	0.793	6.16	5	7	15	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0280	0.3868	1.010	2.273	1.000	0.001	0.978	0.609	6.69	6	9	15	1.001
	200	0.9999	0.0146	0.3943	1.011	2.297	1.000	0.001	0.978	0.590	6.85	6	10	23	1.000
	300	0.9999	0.0101	0.4026	1.013	2.277	1.000	0.001	0.975	0.558	7.00	6	10	24	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0254	0.3680	1.008	2.181	0.999	0.001	0.971	0.697	6.44	6	8	13	1.001
	200	0.9999	0.0129	0.3716	1.009	2.192	1.000	0.001	0.965	0.684	6.52	6	9	19	1.000
	300	0.9999	0.0089	0.3789	1.011	2.154	1.000	0.002	0.966	0.656	6.62	6	9	21	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0218	0.3385	1.006	2.046	0.997	0.002	0.934	0.824	6.09	5	7	12	1.000
	200	0.9995	0.0109	0.3413	1.007	2.044	0.998	0.004	0.936	0.806	6.13	5	7	14	1.000
	300	0.9996	0.0073	0.3427	1.008	1.993	0.999	0.004	0.931	0.794	6.15	5	7	15	1.000

Notes: See notes to Table 46.

Table 351: MC findings for DGPII(a)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0284	0.3924	1.005	2.223	1.000	0.000	1.000	0.576	6.73	6	9	15	1.002
	200	1.0000	0.0147	0.4021	1.007	2.304	1.000	0.000	1.000	0.549	6.88	6	9	19	1.005
	300	1.0000	0.0103	0.4113	1.007	2.273	1.000	0.000	1.000	0.503	7.04	6	10	19	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0255	0.3714	1.004	2.089	1.000	0.000	1.000	0.700	6.45	6	8	15	1.001
	200	1.0000	0.0131	0.3791	1.006	2.183	1.000	0.000	1.000	0.668	6.56	6	8.5	17	1.002
	300	1.0000	0.0089	0.3849	1.005	2.137	1.000	0.000	1.000	0.634	6.65	6	9	15	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0225	0.3477	1.004	1.958	1.000	0.000	1.000	0.874	6.16	6	7	11	1.001
	200	1.0000	0.0112	0.3498	1.004	2.005	1.000	0.000	0.999	0.856	6.19	6	7	12	1.001
	300	1.0000	0.0075	0.3525	1.004	1.970	1.000	0.000	0.999	0.836	6.22	6	7	12	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0284	0.3923	1.005	2.184	1.000	0.000	1.000	0.577	6.73	6	9	15	1.000
	200	1.0000	0.0147	0.4017	1.007	2.286	1.000	0.000	1.000	0.551	6.88	6	9	19	1.000
	300	1.0000	0.0102	0.4109	1.006	2.252	1.000	0.000	1.000	0.505	7.03	6	10	19	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0255	0.3714	1.004	2.085	1.000	0.000	1.000	0.701	6.45	6	8	15	1.001
	200	1.0000	0.0131	0.3789	1.006	2.174	1.000	0.000	1.000	0.670	6.56	6	8.5	17	1.000
	300	1.0000	0.0089	0.3847	1.005	2.126	1.000	0.000	1.000	0.635	6.64	6	9	15	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0225	0.3477	1.004	1.958	1.000	0.000	1.000	0.874	6.16	6	7	11	1.001
	200	1.0000	0.0112	0.3498	1.004	2.004	1.000	0.000	0.999	0.857	6.19	6	7	12	1.001
	300	1.0000	0.0075	0.3525	1.004	1.970	1.000	0.000	0.999	0.836	6.22	6	7	12	1.000

Notes: See notes to Table 46.

Table 352: MC findings for DGPII(b)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9315	0.1844	0.7691	1.582	16.977	0.754	0.004	21.42	6	38	52	1.041
	200	0.9219	0.1581	0.8402	2.473	104.957	0.726	0.001	34.68	7	67	93	1.038
	300	0.9146	0.1717	0.8764	5.076	1433.043	0.700	0.001	54.48	8.5	98	285	1.508
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9196	0.1603	0.7371	1.488	14.010	0.717	0.007	19.06	5	36	52	1.038
	200	0.9086	0.1385	0.8158	2.183	52.411	0.689	0.003	30.79	6	62	90	1.029
	300	0.9023	0.1407	0.8559	3.763	525.999	0.667	0.001	45.26	6	85	294	1.249
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8908	0.1187	0.6645	1.362	9.851	0.638	0.011	14.96	4	30	45	1.030
	200	0.8778	0.1018	0.7530	1.785	29.280	0.609	0.005	23.47	4	52	78	1.027
	300	0.8765	0.0967	0.8016	2.674	219.127	0.603	0.004	32.14	4	71	281	1.056
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9285	0.1841	0.7690	1.575	16.592	0.743	0.003	21.39	6	38	52	1.014
	200	0.9203	0.1580	0.8400	2.459	103.419	0.721	0.001	34.65	7	67	93	1.012
	300	0.9133	0.1688	0.8762	4.974	1414.945	0.697	0.001	53.62	8	96.5	285	1.423
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9166	0.1601	0.7369	1.484	13.637	0.707	0.007	19.03	5	36	52	1.013
	200	0.9066	0.1385	0.8156	2.174	51.626	0.682	0.003	30.77	6	62	90	1.012
	300	0.9014	0.1392	0.8557	3.721	486.430	0.665	0.001	44.82	6	85	298	1.195
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8879	0.1185	0.6639	1.361	9.789	0.631	0.010	14.93	3	30	45	1.011
	200	0.8754	0.1018	0.7530	1.783	29.034	0.604	0.005	23.45	4	52	78	1.011
	300	0.8751	0.0967	0.8015	2.668	218.948	0.601	0.004	32.12	4	71	281	1.048

Notes: See notes to Table 55.

Table 353: MC findings for DGPII(b)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.2102	0.8167	1.087	8.726	0.999	0.000	24.18	13	36	47	1.011
	200	0.9995	0.1828	0.8878	1.200	19.425	0.998	0.000	39.82	21	60	80	1.008
	300	0.9996	0.1676	0.9154	1.329	33.413	0.999	0.000	53.62	26	82	113	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.1854	0.7945	1.073	7.484	0.999	0.001	21.80	11	34	45	1.008
	200	0.9995	0.1613	0.8726	1.168	16.278	0.998	0.000	35.61	18	56	75	1.007
	300	0.9996	0.1481	0.9034	1.277	27.498	0.999	0.000	47.84	22	76	104	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.1391	0.7353	1.050	5.373	0.999	0.002	17.35	8	28	38	1.006
	200	0.9993	0.1217	0.8307	1.115	11.009	0.997	0.001	27.86	12	45	65	1.006
	300	0.9993	0.1115	0.8696	1.182	17.889	0.997	0.000	37.00	15	62	93	1.005
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.2101	0.8166	1.086	8.617	0.999	0.000	24.17	13	36	47	1.004
	200	0.9994	0.1827	0.8878	1.200	19.253	0.998	0.000	39.81	21	60	80	1.002
	300	0.9993	0.1676	0.9154	1.328	33.305	0.997	0.000	53.61	26	82	113	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9998	0.1853	0.7945	1.073	7.404	0.999	0.001	21.79	11	34	45	1.003
	200	0.9993	0.1613	0.8726	1.167	16.145	0.997	0.000	35.60	18	56	75	1.001
	300	0.9994	0.1481	0.9034	1.277	27.472	0.998	0.000	47.84	22	76	104	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9995	0.1391	0.7352	1.050	5.371	0.998	0.002	17.35	8	28	38	1.004
	200	0.9989	0.1217	0.8307	1.115	11.034	0.996	0.001	27.86	12	45	65	1.004
	300	0.9989	0.1115	0.8696	1.183	17.896	0.996	0.001	37.00	15	62	93	1.003

Notes: See notes to Table 55.

Table 354: MC findings for DGPII(b)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.2207	0.8293	1.041	7.288	1.000	0.000	25.19	15	36	51	1.007
	200	1.0000	0.1884	0.8945	1.085	14.273	1.000	0.000	40.93	24	59	78	1.007
	300	1.0000	0.1722	0.9219	1.135	22.809	1.000	0.000	54.98	33	78	97	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1956	0.8095	1.035	6.370	1.000	0.000	22.78	13	33	47	1.006
	200	1.0000	0.1669	0.8810	1.072	12.090	1.000	0.000	36.71	20	54	72	1.004
	300	1.0000	0.1522	0.9116	1.112	18.941	1.000	0.000	49.07	29	71	90	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1488	0.7585	1.025	4.789	1.000	0.000	18.28	10	28	38	1.001
	200	1.0000	0.1267	0.8446	1.051	8.481	1.000	0.000	28.84	15	45	64	1.001
	300	1.0000	0.1153	0.8835	1.077	12.911	1.000	0.000	38.13	20	58	76	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.2207	0.8293	1.041	7.240	1.000	0.000	25.18	15	36	51	1.001
	200	1.0000	0.1884	0.8945	1.085	14.227	1.000	0.000	40.93	24	59	78	1.002
	300	1.0000	0.1722	0.9219	1.135	22.747	1.000	0.000	54.98	33	78	97	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1955	0.8094	1.034	6.330	1.000	0.000	22.77	13	33	47	1.001
	200	1.0000	0.1669	0.8810	1.072	12.066	1.000	0.000	36.70	20	54	72	1.002
	300	1.0000	0.1522	0.9116	1.112	18.931	1.000	0.000	49.06	29	71	90	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1488	0.7585	1.025	4.784	1.000	0.000	18.28	10	28	38	1.000
	200	1.0000	0.1267	0.8446	1.051	8.480	1.000	0.000	28.84	15	45	64	1.000
	300	1.0000	0.1153	0.8835	1.077	12.911	1.000	0.000	38.13	20	58	76	1.000

Notes: See notes to Table 55.

Table 355: MC findings for DGPII(b)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8491	0.1200	0.6591	1.336	9.424	0.563	0.006	14.91	3	32	47	1.018
	200	0.8294	0.1012	0.7459	1.832	40.665	0.531	0.005	23.15	3	56	90	1.022
	300	0.8121	0.0980	0.7951	2.664	222.915	0.495	0.001	32.27	3	75	267	1.121
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8263	0.1007	0.6142	1.278	7.661	0.518	0.010	12.97	2	29	44	1.016
	200	0.8046	0.0857	0.7051	1.652	25.403	0.484	0.005	20.01	2	51	86	1.013
	300	0.7860	0.0818	0.7574	2.278	82.819	0.452	0.003	27.37	2	67	281	1.068
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7678	0.0680	0.5082	1.211	5.340	0.434	0.017	9.60	1	23	40	1.013
	200	0.7474	0.0587	0.6041	1.420	14.009	0.405	0.011	14.49	1	41	78	1.009
	300	0.7273	0.0539	0.6692	1.744	48.367	0.374	0.004	18.86	1	53	257	1.012
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8484	0.1198	0.6588	1.332	9.300	0.561	0.006	14.89	3	32	47	1.004
	200	0.8283	0.1011	0.7451	1.819	39.791	0.529	0.004	23.13	3	56	90	1.003
	300	0.8116	0.0977	0.7943	3.764	988.238	0.494	0.001	32.17	3	75	267	1.091
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8250	0.1006	0.6143	1.276	7.605	0.516	0.010	12.96	2	29	44	1.006
	200	0.8036	0.0856	0.7046	1.649	25.386	0.482	0.005	20.00	2	51	86	1.003
	300	0.7856	0.0812	0.7566	2.338	179.525	0.451	0.003	27.19	2	67	269	1.054
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7663	0.0679	0.5080	1.210	5.311	0.432	0.016	9.59	1	23	40	1.001
	200	0.7463	0.0586	0.6038	1.418	13.949	0.404	0.010	14.48	1	41	78	1.000
	300	0.7270	0.0538	0.6684	1.733	42.491	0.373	0.004	18.84	1	53	252	1.007

Notes: See notes to Table 55.

Table 356: MC findings for DGPII(b)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9975	0.1484	0.7471	1.058	6.079	0.990	0.002	18.24	9	29	44	1.013
	200	0.9969	0.1227	0.8261	1.117	11.532	0.988	0.002	28.04	11	48	71	1.007
	300	0.9968	0.1135	0.8677	1.189	20.435	0.987	0.001	37.59	14.5	66	93	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9965	0.1267	0.7111	1.049	5.212	0.986	0.004	16.15	7	27	40	1.009
	200	0.9958	0.1044	0.7977	1.096	9.476	0.983	0.003	24.45	9	44	65	1.004
	300	0.9960	0.0972	0.8448	1.153	16.364	0.984	0.001	32.76	12	59	84	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9943	0.0884	0.6198	1.033	3.833	0.978	0.017	12.46	5	22	35	1.009
	200	0.9935	0.0729	0.7209	1.062	6.346	0.974	0.009	18.27	6	34	52	1.003
	300	0.9938	0.0683	0.7815	1.095	10.167	0.975	0.003	24.20	8	47	67	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9970	0.1483	0.7470	1.058	6.040	0.988	0.002	18.23	9	29	44	1.002
	200	0.9965	0.1227	0.8261	1.116	11.459	0.986	0.002	28.03	11	48	71	1.001
	300	0.9966	0.1135	0.8677	1.189	20.379	0.987	0.001	37.58	14.5	66	93	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9961	0.1266	0.7109	1.048	5.194	0.985	0.004	16.14	7	27	40	1.004
	200	0.9954	0.1044	0.7978	1.096	9.461	0.982	0.003	24.45	9	44	65	1.001
	300	0.9959	0.0972	0.8448	1.153	16.337	0.984	0.001	32.76	12	59	84	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9931	0.0883	0.6200	1.033	3.838	0.973	0.016	12.45	5	22	35	1.003
	200	0.9931	0.0729	0.7210	1.063	6.349	0.973	0.009	18.27	6	34	52	1.001
	300	0.9934	0.0683	0.7816	1.095	10.172	0.974	0.003	24.20	8	47	67	1.002

Notes: See notes to Table 55.

Table 357: MC findings for DGPII(b)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.1562	0.7646	1.029	5.402	1.000	0.001	19.00	10	29.5	40	1.007
	200	1.0000	0.1294	0.8466	1.053	9.308	1.000	0.000	29.37	15	46	67	1.004
	300	1.0000	0.1165	0.8801	1.083	14.512	1.000	0.000	38.49	19	61	82	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9999	0.1346	0.7337	1.024	4.668	1.000	0.001	16.92	9	27	37	1.003
	200	1.0000	0.1111	0.8226	1.044	7.776	1.000	0.000	25.78	13	41	58	1.002
	300	1.0000	0.0999	0.8603	1.069	11.785	1.000	0.000	33.57	15.5	55	71	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9998	0.0954	0.6532	1.017	3.503	0.999	0.006	13.16	7	21	33	1.002
	200	0.9999	0.0789	0.7593	1.029	5.432	1.000	0.001	19.47	9	33	50	1.002
	300	1.0000	0.0704	0.8049	1.045	7.781	1.000	0.001	24.84	10	44	58	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.1562	0.7646	1.028	5.363	1.000	0.001	18.99	10	29.5	40	1.001
	200	1.0000	0.1294	0.8466	1.053	9.270	1.000	0.000	29.36	15	46	67	1.001
	300	1.0000	0.1165	0.8801	1.083	14.416	1.000	0.000	38.49	19	61	82	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9999	0.1345	0.7336	1.024	4.652	1.000	0.001	16.91	9	27	37	1.001
	200	1.0000	0.1111	0.8225	1.044	7.766	1.000	0.000	25.78	13	41	58	1.000
	300	1.0000	0.0999	0.8603	1.069	11.770	1.000	0.000	33.57	15	55	71	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9996	0.0954	0.6532	1.017	3.505	0.999	0.006	13.16	7	21	33	1.000
	200	0.9999	0.0789	0.7593	1.029	5.425	1.000	0.001	19.46	9	33	50	1.001
	300	1.0000	0.0704	0.8049	1.045	7.781	1.000	0.001	24.84	10	44	58	1.000

Notes: See notes to Table 55.

Table 358: MC findings for DGPII(b)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6489	0.0626	0.5138	1.180	4.867	0.309	0.008	8.60	0	24	39	1.013
	200	0.6081	0.0482	0.5907	1.319	14.252	0.262	0.003	11.88	0	36	83	1.010
	300	0.5733	0.0417	0.6349	1.570	31.423	0.238	0.003	14.65	0	47	256	1.026
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.6055	0.0497	0.4553	1.153	3.885	0.267	0.011	7.19	0	21	36	1.007
	200	0.5673	0.0383	0.5271	1.249	9.852	0.228	0.005	9.78	0	31	76	1.006
	300	0.5311	0.0327	0.5770	1.556	78.598	0.208	0.001	11.81	0	39.5	90	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.5158	0.0296	0.3371	1.123	2.576	0.189	0.012	4.90	0	16	35	1.002
	200	0.4731	0.0228	0.4069	1.174	5.335	0.164	0.003	6.35	0	23	62	1.002
	300	0.4438	0.0193	0.4471	1.254	10.200	0.157	0.003	7.49	0	28	75	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6485	0.0625	0.5129	1.178	4.786	0.309	0.008	8.60	0	24	39	1.005
	200	0.6079	0.0482	0.5905	1.314	14.109	0.262	0.003	11.87	0	36	83	1.001
	300	0.5730	0.0414	0.6346	1.567	40.694	0.238	0.003	14.56	0	47	267	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6051	0.0497	0.4549	1.152	3.855	0.267	0.011	7.19	0	21	36	1.002
	200	0.5671	0.0383	0.5268	1.247	9.786	0.228	0.005	9.77	0	31	76	1.001
	300	0.5309	0.0327	0.5770	1.553	78.579	0.208	0.001	11.80	0	39.5	90	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.5156	0.0296	0.3368	1.122	2.567	0.189	0.012	4.90	0	16	35	1.000
	200	0.4731	0.0227	0.4066	1.173	5.318	0.164	0.003	6.35	0	23	62	1.000
	300	0.4435	0.0193	0.4472	1.252	10.054	0.157	0.003	7.49	0	28	75	1.000

Notes: See notes to Table 55.

Table 359: MC findings for DGPII(b)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9813	0.0780	0.5800	1.031	3.477	0.931	0.022	11.41	5	21	35	1.004
	200	0.9725	0.0605	0.6656	1.054	5.762	0.898	0.016	15.74	5	33	50	1.005
	300	0.9694	0.0528	0.7166	1.076	7.859	0.889	0.010	19.50	5	42	68	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9771	0.0624	0.5176	1.026	3.039	0.918	0.042	9.90	4	19	31	1.003
	200	0.9661	0.0490	0.6115	1.044	4.766	0.877	0.030	13.48	4	29	47	1.003
	300	0.9624	0.0427	0.6662	1.061	6.277	0.863	0.017	16.47	5	37	61	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9626	0.0386	0.3936	1.018	2.371	0.868	0.109	7.55	4	14.5	24	1.002
	200	0.9474	0.0301	0.4863	1.030	3.308	0.819	0.056	9.69	3	21	38	1.003
	300	0.9430	0.0260	0.5379	1.039	4.042	0.805	0.038	11.48	3	26	50	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9811	0.0780	0.5798	1.031	3.425	0.930	0.022	11.41	5	21	35	1.001
	200	0.9725	0.0604	0.6654	1.054	5.737	0.898	0.016	15.74	5	33	50	1.001
	300	0.9694	0.0528	0.7165	1.075	7.787	0.889	0.010	19.49	5	42	68	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9769	0.0624	0.5176	1.025	2.993	0.917	0.042	9.90	4	19	31	1.001
	200	0.9661	0.0490	0.6115	1.044	4.747	0.877	0.030	13.48	4	29	47	1.001
	300	0.9623	0.0426	0.6662	1.061	6.250	0.863	0.017	16.47	5	37	61	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9623	0.0386	0.3936	1.018	2.373	0.868	0.108	7.55	4	14.5	24	1.000
	200	0.9471	0.0301	0.4862	1.030	3.285	0.818	0.056	9.68	3	21	38	1.000
	300	0.9429	0.0260	0.5379	1.039	4.042	0.805	0.038	11.48	3	26	50	1.000

Notes: See notes to Table 55.

Table 360: MC findings for DGPII(b)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0837	0.6140	1.016	3.152	0.998	0.013	12.03	6	20	34	1.005
	200	0.9988	0.0658	0.7120	1.028	4.840	0.995	0.006	16.89	7	30	45	1.005
	300	0.9983	0.0570	0.7596	1.038	6.358	0.993	0.001	20.85	8	38	63	1.004
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9991	0.0680	0.5599	1.014	2.752	0.997	0.025	10.52	5	18	28	1.002
	200	0.9983	0.0535	0.6624	1.023	4.078	0.993	0.010	14.48	6	27	39	1.003
	300	0.9976	0.0462	0.7137	1.031	5.248	0.991	0.003	17.66	7	33	59	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9983	0.0427	0.4367	1.009	2.147	0.994	0.084	8.09	4	14	24	1.000
	200	0.9968	0.0333	0.5372	1.014	2.926	0.987	0.042	10.51	5	21	31	1.001
	300	0.9953	0.0286	0.5928	1.019	3.633	0.981	0.031	12.44	5	24.5	45	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9994	0.0837	0.6138	1.016	3.134	0.998	0.013	12.03	6	20	34	1.001
	200	0.9988	0.0658	0.7119	1.028	4.813	0.995	0.006	16.88	7	30	45	1.001
	300	0.9980	0.0569	0.7596	1.038	6.328	0.992	0.001	20.85	8	38	63	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9991	0.0679	0.5598	1.014	2.743	0.997	0.025	10.52	5	18	28	1.000
	200	0.9983	0.0535	0.6624	1.023	4.062	0.993	0.010	14.48	6	27	39	1.001
	300	0.9974	0.0462	0.7138	1.031	5.244	0.990	0.003	17.66	7	33	59	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9983	0.0427	0.4367	1.009	2.147	0.994	0.084	8.09	4	14	24	1.000
	200	0.9968	0.0333	0.5371	1.014	2.925	0.987	0.042	10.51	5	21	31	1.000
	300	0.9951	0.0286	0.5929	1.019	3.635	0.981	0.031	12.44	5	24.5	45	1.000

Notes: See notes to Table 55.

6.3 Findings for designs with zero net signal effects

Table 361: MC findings for DGPIII

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8928	0.1158	0.6508	1.452	17.584	0.652	0.050	14.69	4	30	45	1.567
	200	0.8230	0.0964	0.7363	1.954	39.334	0.437	0.036	22.19	4	51	85	1.376
	300	0.7979	0.0905	0.7668	2.803	200.015	0.339	0.034	29.98	4	71	277	1.358
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8846	0.0968	0.6045	1.406	15.786	0.638	0.067	12.83	4	27	41	1.581
	200	0.8093	0.0808	0.6949	1.810	32.212	0.417	0.049	19.07	4	45	80	1.376
	300	0.7899	0.0737	0.7265	2.553	223.495	0.340	0.048	24.98	4	63.5	264	1.331
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8584	0.0637	0.5028	1.345	13.167	0.596	0.122	9.55	4	22	36	1.584
	200	0.7866	0.0546	0.5997	1.606	22.171	0.408	0.080	13.84	3	35	77	1.395
	300	0.7660	0.0493	0.6361	1.883	51.627	0.327	0.080	17.66	3	49	257	1.317
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8658	0.1145	0.6494	1.495	18.741	0.556	0.054	14.45	4	30	45	1.442
	200	0.7945	0.0959	0.7371	1.973	39.298	0.337	0.035	21.97	4	51	85	1.242
	300	0.7756	0.0906	0.7659	2.788	191.137	0.258	0.037	29.91	4	71	281	1.243
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8588	0.0956	0.6028	1.443	16.688	0.549	0.073	12.62	4	27	41	1.466
	200	0.7830	0.0803	0.6945	1.831	32.203	0.326	0.049	18.87	4	45	80	1.255
	300	0.7664	0.0732	0.7255	2.554	226.228	0.252	0.051	24.73	4	63.5	265	1.219
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8315	0.0629	0.5007	1.384	14.177	0.509	0.128	9.36	3	22	36	1.470
	200	0.7598	0.0542	0.5984	1.635	22.721	0.321	0.080	13.66	3	35	77	1.280
	300	0.7458	0.0491	0.6338	1.900	51.706	0.257	0.084	17.51	3	49	257	1.228

Notes: See notes to Table 64.

Table 362: MC findings for DGPIII

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1460	0.7396	1.055	6.452	1.000	0.004	18.01	8	30	41	1.858
	200	1.0000	0.1150	0.8169	1.111	11.106	1.000	0.002	26.55	11	46	66	1.873
	300	0.9995	0.1057	0.8593	1.173	18.697	0.998	0.001	35.28	14	62	92	1.897
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1241	0.7029	1.046	5.408	1.000	0.006	15.92	7	27	40	1.871
	200	1.0000	0.0977	0.7864	1.088	9.094	1.000	0.003	23.14	9	41	62	1.896
	300	0.9998	0.0895	0.8323	1.138	15.217	0.999	0.001	30.48	11	56	86	1.910
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0858	0.6089	1.029	3.782	1.000	0.027	12.23	5	21	31	1.912
	200	1.0000	0.0667	0.7034	1.055	5.874	1.000	0.011	17.07	6	32	53	1.935
	300	0.9998	0.0616	0.7621	1.086	9.115	0.999	0.004	22.24	7	43	74	1.935
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1419	0.7324	1.050	5.981	1.000	0.004	17.63	8	29	41	1.853
	200	0.9999	0.1136	0.8135	1.103	10.653	1.000	0.002	26.26	11	45.5	66	1.867
	300	0.9986	0.1050	0.8574	1.169	19.297	0.995	0.001	35.08	14	62	92	1.890
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1208	0.6948	1.042	5.042	1.000	0.007	15.60	7	26	40	1.867
	200	1.0000	0.0963	0.7821	1.084	8.671	1.000	0.003	22.88	9	40	62	1.894
	300	0.9991	0.0888	0.8298	1.133	15.363	0.997	0.001	30.29	11	56	86	1.906
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0835	0.5992	1.027	3.566	1.000	0.030	12.01	5	21	31	1.912
	200	1.0000	0.0659	0.6985	1.052	5.627	1.000	0.012	16.91	6	32	53	1.934
	300	0.9990	0.0611	0.7581	1.085	10.054	0.996	0.006	22.08	7	43	74	1.932

Notes: See notes to Table 64.

Table 363: MC findings for DGPIII

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1526	0.7616	1.028	5.503	1.000	0.000	18.65	10	29	40	1.845
	200	1.0000	0.1244	0.8409	1.054	9.644	1.000	0.000	28.38	14	44	60	1.883
	300	1.0000	0.1093	0.8745	1.077	13.402	1.000	0.000	36.36	17	57	78	1.882
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1297	0.7272	1.024	4.684	1.000	0.001	16.45	8.5	26	39	1.865
	200	1.0000	0.1058	0.8143	1.044	7.896	1.000	0.000	24.73	12	39	56	1.891
	300	1.0000	0.0928	0.8519	1.062	10.913	1.000	0.001	31.48	15	51	71	1.899
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0898	0.6381	1.016	3.459	1.000	0.007	12.62	6	21	31	1.906
	200	1.0000	0.0735	0.7432	1.029	5.329	1.000	0.001	18.41	8	31	48	1.924
	300	1.0000	0.0640	0.7903	1.040	7.080	1.000	0.002	22.94	10	39.5	61	1.927
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1471	0.7536	1.026	5.103	1.000	0.000	18.12	9	28	40	1.838
	200	1.0000	0.1215	0.8367	1.050	8.915	1.000	0.000	27.82	13	44	60	1.877
	300	1.0000	0.1080	0.8724	1.073	12.748	1.000	0.000	35.95	17	57	78	1.880
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1251	0.7180	1.022	4.361	1.000	0.002	16.01	8	25.5	39	1.861
	200	1.0000	0.1032	0.8093	1.041	7.366	1.000	0.000	24.23	11.5	39	56	1.889
	300	1.0000	0.0916	0.8494	1.058	10.401	1.000	0.001	31.12	14	51	71	1.898
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0867	0.6276	1.015	3.296	1.000	0.008	12.32	6	21	30	1.906
	200	1.0000	0.0718	0.7361	1.027	5.037	1.000	0.002	18.07	8	31	48	1.924
	300	1.0000	0.0631	0.7865	1.038	6.789	1.000	0.002	22.67	10	39	61	1.927

Notes: See notes to Table 64.

Table 364: MC findings for DGPIII

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7376	0.0739	0.5454	1.330	10.447	0.272	0.073	10.05	2	24	45	1.244
	200	0.6731	0.0592	0.6309	1.541	22.393	0.131	0.034	14.29	2	38	74	1.120
	300	0.6703	0.0526	0.6509	2.322	538.762	0.123	0.041	18.25	2	53	98	1.098
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7105	0.0597	0.4901	1.300	9.281	0.243	0.083	8.57	2	21.5	40	1.230
	200	0.6489	0.0476	0.5781	1.463	17.753	0.125	0.044	11.92	2	33	67	1.118
	300	0.6455	0.0427	0.6013	1.654	45.114	0.112	0.047	15.21	2	47.5	93	1.094
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6460	0.0371	0.3843	1.263	7.851	0.188	0.091	6.15	1	16.5	37	1.207
	200	0.5966	0.0297	0.4698	1.344	11.105	0.109	0.049	8.20	1	25	58	1.110
	300	0.5870	0.0263	0.4917	1.439	16.551	0.093	0.050	10.14	1	35	75	1.087
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7140	0.0734	0.5455	1.341	10.493	0.194	0.060	9.91	2	24	45	1.132
	200	0.6615	0.0590	0.6308	1.540	22.214	0.093	0.027	14.21	2	38	74	1.055
	300	0.6600	0.0525	0.6498	2.303	538.060	0.087	0.032	18.17	2	53	98	1.038
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6883	0.0592	0.4891	1.312	9.466	0.172	0.065	8.44	2	21	40	1.128
	200	0.6371	0.0475	0.5774	1.462	17.050	0.088	0.033	11.85	2	33	67	1.058
	300	0.6350	0.0426	0.5997	1.652	45.055	0.081	0.037	15.14	2	47.5	93	1.041
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6260	0.0368	0.3832	1.273	7.982	0.128	0.073	6.04	1	16.5	37	1.115
	200	0.5848	0.0296	0.4693	1.349	11.160	0.071	0.036	8.14	1	25	58	1.057
	300	0.5771	0.0263	0.4910	1.443	16.458	0.060	0.036	10.09	1	35	75	1.040

Notes: See notes to Table 64.

Table 365: MC findings for DGPIII

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9994	0.0920	0.6221	1.036	4.655	0.998	0.018	12.83	5	23	34	1.906
	200	0.9910	0.0749	0.7228	1.073	9.786	0.964	0.007	18.65	6	36	54	1.889
	300	0.9753	0.0653	0.7679	1.115	15.479	0.902	0.007	23.24	7	46	72	1.845
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9993	0.0749	0.5662	1.030	3.996	0.997	0.038	11.19	5	20	30	1.927
	200	0.9921	0.0611	0.6724	1.058	8.266	0.969	0.018	15.93	6	32	51	1.904
	300	0.9776	0.0532	0.7215	1.094	13.425	0.912	0.013	19.67	6	41	65	1.863
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9980	0.0473	0.4420	1.019	3.386	0.993	0.110	8.54	4	16	25	1.947
	200	0.9895	0.0382	0.5504	1.039	7.066	0.960	0.057	11.44	4	24	39	1.930
	300	0.9823	0.0336	0.6070	1.061	9.771	0.932	0.046	13.86	5	30.5	53	1.905
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9980	0.0905	0.6166	1.035	4.891	0.993	0.022	12.68	5	23	34	1.898
	200	0.9783	0.0745	0.7228	1.082	12.383	0.913	0.007	18.52	6	36	54	1.836
	300	0.9488	0.0651	0.7707	1.136	19.298	0.798	0.007	23.08	7	46	71	1.735
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9971	0.0738	0.5618	1.029	4.547	0.990	0.040	11.08	5	20	30	1.916
	200	0.9803	0.0607	0.6719	1.067	10.769	0.922	0.021	15.82	5	32	51	1.857
	300	0.9553	0.0531	0.7240	1.113	16.699	0.824	0.014	19.54	6	40	65	1.772
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9964	0.0467	0.4379	1.019	3.939	0.987	0.114	8.47	4	16	25	1.940
	200	0.9806	0.0380	0.5500	1.047	9.036	0.927	0.060	11.37	4	24	39	1.894
	300	0.9651	0.0334	0.6084	1.076	12.628	0.864	0.048	13.76	5	30	53	1.836

Notes: See notes to Table 64.

Table 366: MC findings for DGPIII

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0959	0.6484	1.019	3.717	1.000	0.005	13.20	6	22	33	1.890
	200	1.0000	0.0781	0.7507	1.031	5.845	1.000	0.002	19.31	8	34	53	1.923
	300	0.9998	0.0682	0.7957	1.045	8.270	0.999	0.001	24.17	10	44	65	1.931
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0780	0.5940	1.015	3.203	1.000	0.013	11.49	5	20	31	1.905
	200	1.0000	0.0640	0.7050	1.025	4.909	1.000	0.005	16.55	7	30	47	1.938
	300	0.9999	0.0558	0.7548	1.036	6.679	1.000	0.002	20.52	8	38	59	1.938
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0494	0.4698	1.010	2.352	1.000	0.069	8.74	4	15	24	1.937
	200	1.0000	0.0404	0.5883	1.016	3.398	1.000	0.027	11.91	5	22	37	1.967
	300	0.9998	0.0352	0.6455	1.023	4.774	0.999	0.018	14.42	5	28	42	1.962
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0942	0.6434	1.018	3.503	1.000	0.005	13.05	6	22	33	1.886
	200	1.0000	0.0774	0.7484	1.030	5.632	1.000	0.002	19.18	8	33.5	53	1.921
	300	0.9995	0.0677	0.7938	1.043	8.150	0.998	0.001	24.05	9	44	65	1.926
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0768	0.5890	1.015	3.070	1.000	0.013	11.37	5	20	31	1.904
	200	1.0000	0.0635	0.7024	1.024	4.725	1.000	0.006	16.44	7	30	47	1.936
	300	0.9998	0.0555	0.7528	1.034	6.602	0.999	0.003	20.42	8	38	59	1.936
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0486	0.4645	1.009	2.280	1.000	0.074	8.67	4	15	24	1.937
	200	1.0000	0.0400	0.5849	1.016	3.315	1.000	0.030	11.85	5	22	37	1.967
	300	0.9998	0.0350	0.6425	1.022	4.675	0.999	0.020	14.36	5	28	42	1.962

Notes: See notes to Table 64.

Table 367: MC findings for DGPIII

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4860	0.0368	0.4315	1.173	4.777	0.060	0.036	5.47	0	16	39	1.054
	200	0.4403	0.0265	0.4841	1.228	7.265	0.029	0.018	6.96	0	24	60	1.030
	300	0.4235	0.0225	0.5309	1.302	16.086	0.022	0.009	8.35	0	29	87	1.015
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4454	0.0277	0.3695	1.159	4.290	0.051	0.033	4.44	0	14	36	1.047
	200	0.3990	0.0201	0.4296	1.199	5.951	0.024	0.018	5.53	0	20	56	1.024
	300	0.3865	0.0169	0.4638	1.237	9.479	0.016	0.010	6.54	0	25	75	1.010
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3603	0.0145	0.2531	1.145	3.740	0.031	0.026	2.83	0	9	31	1.030
	200	0.3156	0.0105	0.3061	1.165	4.357	0.013	0.010	3.32	0	13	45	1.011
	300	0.3029	0.0088	0.3348	1.179	5.581	0.009	0.006	3.82	0	15.5	57	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4816	0.0366	0.4310	1.170	4.704	0.047	0.029	5.44	0	16	39	1.023
	200	0.4365	0.0265	0.4840	1.225	7.169	0.022	0.013	6.93	0	24	60	1.005
	300	0.4224	0.0225	0.5300	1.295	12.716	0.019	0.008	8.34	0	29	84	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4404	0.0276	0.3689	1.158	4.264	0.035	0.022	4.41	0	14	36	1.019
	200	0.3958	0.0200	0.4295	1.198	5.911	0.016	0.011	5.51	0	20	56	1.004
	300	0.3855	0.0169	0.4633	1.237	9.470	0.014	0.008	6.53	0	25	75	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3563	0.0145	0.2527	1.145	3.741	0.020	0.018	2.82	0	9	31	1.012
	200	0.3136	0.0105	0.3051	1.166	4.354	0.007	0.005	3.31	0	13	45	1.000
	300	0.3021	0.0088	0.3353	1.180	5.583	0.007	0.005	3.82	0	15.5	57	1.001

Notes: See notes to Table 64.

Table 368: MC findings for DGPIII

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9553	0.0442	0.4330	1.035	5.575	0.834	0.110	8.07	4	15	27	1.813
	200	0.8991	0.0338	0.5336	1.064	9.131	0.630	0.076	10.22	4	22	40	1.609
	300	0.8628	0.0285	0.5830	1.085	10.929	0.499	0.057	11.90	4	28	52	1.481
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9475	0.0332	0.3638	1.032	5.539	0.811	0.169	6.98	4	13	25	1.807
	200	0.8979	0.0257	0.4621	1.057	8.597	0.639	0.110	8.63	4	19	36	1.633
	300	0.8619	0.0217	0.5113	1.076	10.107	0.511	0.093	9.87	4	23.5	49	1.505
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9315	0.0180	0.2382	1.027	5.474	0.770	0.308	5.45	3	10	18	1.805
	200	0.8865	0.0136	0.3144	1.048	7.912	0.624	0.222	6.22	3	13	28	1.663
	300	0.8523	0.0117	0.3633	1.063	9.105	0.518	0.190	6.88	3	16	38	1.542
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9259	0.0439	0.4372	1.046	6.981	0.722	0.105	7.92	4	15	27	1.692
	200	0.8541	0.0337	0.5422	1.082	10.809	0.455	0.066	10.02	4	22	40	1.427
	300	0.8171	0.0285	0.5923	1.102	12.311	0.322	0.048	11.70	4	28	52	1.297
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9200	0.0330	0.3671	1.043	6.826	0.707	0.161	6.85	4	13	25	1.696
	200	0.8520	0.0256	0.4709	1.075	10.299	0.463	0.094	8.43	3	18	36	1.448
	300	0.8185	0.0217	0.5196	1.092	11.426	0.346	0.081	9.69	4	23	49	1.330
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9044	0.0179	0.2408	1.037	6.617	0.674	0.283	5.33	3	10	17	1.695
	200	0.8463	0.0136	0.3208	1.063	9.344	0.479	0.190	6.04	3	13	28	1.501
	300	0.8110	0.0117	0.3703	1.077	10.336	0.369	0.152	6.71	3	16	38	1.376

Notes: See notes to Table 64.

Table 369: MC findings for DGPIII

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9988	0.0465	0.4531	1.011	2.756	0.995	0.081	8.46	4	15	28	1.955
	200	0.9945	0.0345	0.5463	1.018	4.415	0.979	0.047	10.73	5	20	35	1.945
	300	0.9880	0.0300	0.6080	1.026	6.597	0.952	0.026	12.82	5	25	51	1.931
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9986	0.0354	0.3833	1.009	2.473	0.995	0.138	7.39	4	13	23	1.968
	200	0.9948	0.0262	0.4745	1.015	3.958	0.980	0.087	9.11	4	17	29	1.953
	300	0.9903	0.0228	0.5350	1.020	5.633	0.962	0.058	10.72	4	21	43	1.946
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9983	0.0191	0.2481	1.006	2.119	0.994	0.310	5.82	4	10	19	1.981
	200	0.9950	0.0140	0.3210	1.010	3.375	0.981	0.229	6.72	4	12	23	1.966
	300	0.9921	0.0123	0.3789	1.013	4.429	0.969	0.177	7.62	4	15	31	1.965
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9974	0.0460	0.4508	1.011	3.079	0.990	0.083	8.41	4	15	28	1.945
	200	0.9866	0.0343	0.5464	1.021	5.845	0.947	0.049	10.66	5	20	35	1.911
	300	0.9730	0.0299	0.6100	1.032	8.752	0.892	0.028	12.73	5	25	51	1.870
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9966	0.0351	0.3820	1.009	3.046	0.987	0.140	7.36	4	13	23	1.958
	200	0.9886	0.0261	0.4748	1.017	5.176	0.955	0.087	9.07	4	17	29	1.928
	300	0.9759	0.0228	0.5372	1.026	7.859	0.905	0.059	10.64	4	21	43	1.888
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9958	0.0189	0.2471	1.006	2.869	0.984	0.311	5.80	4	10	19	1.971
	200	0.9898	0.0139	0.3211	1.011	4.453	0.960	0.228	6.69	4	12	23	1.945
	300	0.9818	0.0123	0.3804	1.017	6.331	0.928	0.174	7.57	4	15	31	1.924

Notes: See notes to Table 64.

6.4 Findings for designs with zero net signal effects and pseudo-signals

Table 370: MC findings for DGPIV(a)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.8910	0.1292	0.7002	1.513	19.479	0.638	0.004	0.467	0.048	15.96	6	32	48	1.556
	200	0.8214	0.1049	0.7794	2.005	42.522	0.416	0.001	0.295	0.025	23.85	6	53	81	1.345
	300	0.7884	0.0965	0.8076	2.714	132.008	0.311	0.001	0.222	0.021	31.73	6	71	272	1.324
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8790	0.1104	0.6671	1.457	17.466	0.614	0.004	0.428	0.058	14.12	5	29	46	1.556
	200	0.8130	0.0895	0.7485	1.871	36.996	0.406	0.002	0.275	0.034	20.79	6	48	76	1.354
	300	0.7764	0.0791	0.7772	2.399	99.093	0.305	0.003	0.209	0.036	26.50	6	64	282	1.277
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8523	0.0785	0.5922	1.384	14.621	0.569	0.009	0.355	0.082	10.94	4	24	36	1.564
	200	0.7913	0.0625	0.6775	1.653	22.896	0.388	0.004	0.243	0.054	15.42	4	38	62	1.364
	300	0.7518	0.0536	0.7077	2.006	94.826	0.297	0.006	0.185	0.053	18.87	4	50.5	267	1.271
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8624	0.1281	0.7029	1.552	20.669	0.536	0.004	0.399	0.046	15.75	6	32	48	1.434
	200	0.7951	0.1045	0.7810	2.035	43.239	0.319	0.001	0.225	0.028	23.67	6	53	81	1.223
	300	0.7693	0.0954	0.8088	2.739	144.039	0.243	0.001	0.177	0.022	31.31	6	71	271	1.212
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8534	0.1094	0.6684	1.491	18.431	0.526	0.004	0.371	0.061	13.91	5	29	46	1.446
	200	0.7873	0.0890	0.7500	1.893	34.014	0.313	0.001	0.216	0.035	20.60	5	48	75	1.239
	300	0.7565	0.0785	0.7782	2.405	101.766	0.237	0.003	0.164	0.038	26.25	5	64	270	1.184
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8228	0.0777	0.5949	1.427	15.743	0.474	0.007	0.299	0.085	10.75	4	24	36	1.442
	200	0.7646	0.0622	0.6799	1.687	23.705	0.298	0.005	0.191	0.051	15.25	4	38	62	1.251
	300	0.7320	0.0534	0.7089	1.964	49.512	0.229	0.006	0.144	0.049	18.74	4	50.5	267	1.183

Notes: See notes to Table 46.

Table 371: MC findings for DGPIV(a)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1645	0.7738	1.065	8.075	1.000	0.000	0.979	0.003	19.80	10	31	44	1.856
	200	1.0000	0.1276	0.8392	1.121	14.465	1.000	0.000	0.975	0.000	29.00	13	48	70	1.887
	300	0.9991	0.1124	0.8690	1.187	22.649	0.997	0.000	0.970	0.001	37.27	15	65	90	1.883
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1428	0.7459	1.053	6.794	1.000	0.000	0.971	0.004	17.70	9	29	42	1.876
	200	1.0000	0.1100	0.8156	1.099	11.864	1.000	0.000	0.971	0.002	25.56	11	43	61	1.900
	300	0.9994	0.0965	0.8481	1.151	18.112	0.998	0.000	0.964	0.001	32.57	12	58.5	82	1.897
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1047	0.6781	1.036	5.036	1.000	0.000	0.960	0.016	14.05	7	24	36	1.914
	200	1.0000	0.0789	0.7550	1.063	7.806	1.000	0.000	0.951	0.008	19.46	9	34	54	1.935
	300	0.9995	0.0686	0.7920	1.094	11.718	0.998	0.000	0.944	0.004	24.32	9	46	69	1.932
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1611	0.7691	1.060	7.584	1.000	0.000	0.979	0.003	19.47	10	31	44	1.851
	200	0.9999	0.1261	0.8367	1.114	13.843	1.000	0.000	0.975	0.001	28.72	13	48	70	1.883
	300	0.9976	0.1118	0.8675	1.184	23.526	0.991	0.000	0.965	0.001	37.08	14	65	90	1.875
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1397	0.7406	1.050	6.461	1.000	0.000	0.971	0.005	17.41	9	28	42	1.872
	200	0.9999	0.1088	0.8129	1.094	11.455	1.000	0.000	0.970	0.002	25.33	11	43	61	1.897
	300	0.9984	0.0959	0.8465	1.148	18.703	0.994	0.000	0.961	0.001	32.38	12	58	82	1.893
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1027	0.6729	1.034	4.859	1.000	0.000	0.959	0.019	13.86	7	23	36	1.914
	200	0.9998	0.0780	0.7513	1.061	7.714	1.000	0.000	0.950	0.010	19.29	8	34	54	1.934
	300	0.9989	0.0682	0.7897	1.093	12.128	0.996	0.000	0.942	0.006	24.18	9	46	69	1.930

Notes: See notes to Table 46.

Table 372: MC findings for DGPIV(a)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1670	0.7823	1.032	6.835	1.000	0.000	0.999	0.001	20.03	11	30	43	1.860
	200	1.0000	0.1333	0.8534	1.059	10.592	1.000	0.000	1.000	0.000	30.12	16	46	67	1.877
	300	1.0000	0.1175	0.8835	1.084	15.370	1.000	0.000	0.999	0.000	38.78	20	61	92	1.883
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1449	0.7556	1.027	5.929	1.000	0.000	0.999	0.002	17.91	10	27	38	1.879
	200	1.0000	0.1148	0.8319	1.047	8.833	1.000	0.000	1.000	0.000	26.50	14	41	64	1.894
	300	1.0000	0.1009	0.8652	1.069	12.545	1.000	0.000	0.999	0.001	33.86	17	54	84	1.897
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1062	0.6898	1.019	4.559	1.000	0.000	0.999	0.011	14.19	8	22	30	1.914
	200	1.0000	0.0826	0.7761	1.031	6.315	1.000	0.000	1.000	0.001	20.18	10	32	57	1.926
	300	1.0000	0.0718	0.8151	1.046	8.427	1.000	0.000	0.997	0.000	25.26	12	42	68	1.931
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1613	0.7758	1.029	6.328	1.000	0.000	0.999	0.001	19.49	11	29	43	1.855
	200	1.0000	0.1307	0.8503	1.054	9.905	1.000	0.000	1.000	0.000	29.61	16	45	67	1.876
	300	1.0000	0.1163	0.8818	1.081	14.686	1.000	0.000	0.999	0.000	38.41	19	61	92	1.879
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1402	0.7487	1.025	5.552	1.000	0.000	0.999	0.002	17.46	10	27	38	1.876
	200	1.0000	0.1126	0.8284	1.044	8.324	1.000	0.000	1.000	0.000	26.07	14	41	64	1.893
	300	1.0000	0.0998	0.8633	1.067	12.122	1.000	0.000	0.999	0.001	33.54	16	54	84	1.896
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1028	0.6820	1.017	4.334	1.000	0.000	0.999	0.013	13.87	8	22	30	1.914
	200	1.0000	0.0808	0.7712	1.029	5.985	1.000	0.000	1.000	0.002	19.85	10	32	57	1.926
	300	1.0000	0.0710	0.8126	1.043	8.104	1.000	0.000	0.997	0.001	25.02	11	42	68	1.930

Notes: See notes to Table 46.

Table 373: MC findings for DGPIV(a)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7321	0.0834	0.6273	1.344	11.458	0.252	0.005	0.161	0.044	10.93	3	25	41	1.225
	200	0.6725	0.0647	0.6952	1.580	35.899	0.126	0.003	0.080	0.021	15.38	3	40	188	1.112
	300	0.6576	0.0548	0.7146	1.912	70.721	0.098	0.001	0.065	0.016	18.84	3	51	266	1.082
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7090	0.0685	0.5838	1.308	10.237	0.230	0.008	0.140	0.051	9.41	2	22	41	1.215
	200	0.6474	0.0527	0.6500	1.485	19.295	0.115	0.004	0.069	0.022	12.91	2	35	90	1.104
	300	0.6335	0.0442	0.6719	1.723	40.554	0.093	0.003	0.057	0.018	15.63	2	44	89	1.075
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.6471	0.0449	0.4974	1.271	8.777	0.182	0.013	0.097	0.054	6.90	1	17	35	1.190
	200	0.5925	0.0337	0.5530	1.372	11.952	0.099	0.007	0.049	0.025	8.98	1	26	78	1.103
	300	0.5738	0.0280	0.5769	1.458	17.561	0.068	0.005	0.032	0.016	10.59	1	33	79	1.069
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7104	0.0829	0.6297	1.350	11.571	0.181	0.003	0.122	0.040	10.80	3	25	41	1.120
	200	0.6608	0.0645	0.6959	1.579	35.810	0.088	0.003	0.058	0.018	15.29	3	40	188	1.049
	300	0.6504	0.0546	0.7144	1.893	66.547	0.074	0.000	0.056	0.017	18.78	3	51	266	1.035
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6866	0.0682	0.5872	1.320	10.454	0.158	0.004	0.095	0.040	9.29	2	22	41	1.116
	200	0.6358	0.0525	0.6506	1.487	19.328	0.078	0.003	0.048	0.016	12.84	2	35	90	1.047
	300	0.6251	0.0442	0.6727	1.719	40.367	0.066	0.002	0.045	0.015	15.58	2	44	89	1.030
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.6309	0.0446	0.4979	1.282	8.940	0.129	0.011	0.066	0.037	6.80	1	17	35	1.116
	200	0.5804	0.0336	0.5540	1.379	12.034	0.061	0.004	0.034	0.021	8.91	1	26	78	1.048
	300	0.5664	0.0279	0.5767	1.458	17.565	0.048	0.003	0.025	0.016	10.54	1	33	79	1.031

Notes: See notes to Table 46.

Table 374: MC findings for DGPIV(a)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9980	0.1102	0.6888	1.042	6.043	0.992	0.000	0.948	0.014	14.57	7	24	39	1.911
	200	0.9903	0.0827	0.7591	1.076	11.031	0.961	0.001	0.893	0.008	20.17	8	37	70	1.894
	300	0.9758	0.0708	0.7942	1.121	16.497	0.905	0.000	0.832	0.006	24.86	9	48	74	1.841
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9978	0.0932	0.6500	1.034	5.363	0.992	0.000	0.937	0.032	12.94	7	22	38	1.923
	200	0.9911	0.0689	0.7220	1.063	9.422	0.965	0.001	0.879	0.015	17.48	7	32	64	1.909
	300	0.9756	0.0589	0.7595	1.101	14.329	0.905	0.000	0.813	0.013	21.35	8	42	67	1.855
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9966	0.0651	0.5665	1.024	4.675	0.987	0.000	0.894	0.103	10.24	6	17	30	1.947
	200	0.9923	0.0464	0.6348	1.041	7.175	0.971	0.001	0.848	0.057	13.07	6	25	52	1.937
	300	0.9789	0.0393	0.6743	1.066	10.856	0.919	0.001	0.786	0.045	15.54	6	32	55	1.893
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9961	0.1090	0.6863	1.041	6.581	0.985	0.000	0.941	0.014	14.45	7	24	39	1.899
	200	0.9779	0.0823	0.7595	1.085	13.460	0.912	0.001	0.847	0.009	20.04	8	37	70	1.838
	300	0.9481	0.0706	0.7970	1.144	20.643	0.795	0.000	0.735	0.007	24.69	9	48	74	1.725
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9959	0.0923	0.6477	1.035	5.901	0.985	0.000	0.930	0.034	12.84	7	21	38	1.914
	200	0.9780	0.0686	0.7228	1.073	12.115	0.913	0.001	0.831	0.019	17.37	7	32	64	1.853
	300	0.9519	0.0587	0.7614	1.121	17.995	0.812	0.000	0.731	0.016	21.19	7	42	67	1.758
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9944	0.0646	0.5646	1.025	5.502	0.979	0.000	0.886	0.107	10.18	6	17	30	1.937
	200	0.9816	0.0463	0.6355	1.050	9.581	0.928	0.001	0.810	0.060	12.99	6	25	52	1.894
	300	0.9601	0.0392	0.6766	1.083	14.090	0.848	0.001	0.728	0.047	15.44	6	32	55	1.818

Notes: See notes to Table 46.

Table 375: MC findings for DGPIV(a)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1163	0.7076	1.022	5.122	1.000	0.000	0.997	0.006	15.17	8	24	33	1.906
	200	1.0000	0.0865	0.7786	1.034	6.585	1.000	0.000	0.995	0.004	20.95	10	36	58	1.902
	300	1.0000	0.0734	0.8126	1.048	8.893	1.000	0.000	0.995	0.003	25.71	11	45	70	1.924
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0984	0.6711	1.018	4.456	1.000	0.000	0.995	0.015	13.45	7.5	22	31	1.920
	200	1.0000	0.0726	0.7439	1.027	5.555	1.000	0.000	0.995	0.006	18.22	9	31	55	1.916
	300	1.0000	0.0614	0.7816	1.038	7.400	1.000	0.000	0.993	0.006	22.16	9	40	61	1.938
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.0698	0.5910	1.013	3.405	1.000	0.000	0.993	0.060	10.70	6	17	24	1.949
	200	1.0000	0.0499	0.6642	1.018	4.187	1.000	0.000	0.989	0.027	13.77	7	24	46	1.949
	300	1.0000	0.0412	0.7048	1.024	5.166	1.000	0.000	0.988	0.020	16.20	7	30	50	1.957
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1144	0.7036	1.020	4.834	1.000	0.000	0.996	0.006	14.98	8	24	33	1.902
	200	1.0000	0.0859	0.7767	1.032	6.367	1.000	0.000	0.995	0.004	20.83	10	36	58	1.898
	300	0.9998	0.0730	0.8117	1.046	8.830	0.999	0.000	0.994	0.003	25.62	11	45	70	1.919
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0971	0.6675	1.017	4.292	1.000	0.000	0.995	0.017	13.32	7	21	31	1.918
	200	1.0000	0.0721	0.7419	1.026	5.386	1.000	0.000	0.994	0.007	18.13	8	31	55	1.914
	300	1.0000	0.0611	0.7804	1.037	7.240	1.000	0.000	0.993	0.006	22.09	9	40	61	1.935
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.0689	0.5870	1.012	3.313	1.000	0.000	0.993	0.066	10.61	6	17	23	1.949
	200	1.0000	0.0495	0.6620	1.017	4.091	1.000	0.000	0.989	0.029	13.71	7	24	46	1.949
	300	1.0000	0.0410	0.7035	1.024	5.091	1.000	0.000	0.988	0.021	16.15	7	30	50	1.957

Notes: See notes to Table 46.

Table 376: MC findings for DGPIV(a)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4896	0.0442	0.5304	1.179	5.505	0.054	0.002	0.027	0.014	6.20	0	17	37	1.051
	200	0.4480	0.0318	0.5714	1.265	11.451	0.030	0.001	0.018	0.012	8.03	0	25	60	1.029
	300	0.4309	0.0243	0.5863	1.312	15.504	0.025	0.005	0.013	0.006	8.90	0	29	89	1.019
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4464	0.0343	0.4759	1.165	4.924	0.036	0.003	0.016	0.010	5.08	0	15	35	1.039
	200	0.4109	0.0246	0.5129	1.214	6.760	0.025	0.001	0.012	0.008	6.47	0	21	56	1.023
	300	0.3918	0.0184	0.5268	1.248	12.096	0.022	0.004	0.011	0.006	7.01	0	23	84	1.020
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3559	0.0193	0.3595	1.148	4.187	0.016	0.004	0.005	0.004	3.27	0	10	30	1.029
	200	0.3223	0.0139	0.3942	1.178	5.034	0.014	0.002	0.005	0.004	4.02	0	14	49	1.011
	300	0.3116	0.0100	0.4045	1.186	6.125	0.011	0.001	0.006	0.004	4.20	0	14	66	1.010
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4846	0.0440	0.5305	1.177	5.433	0.041	0.002	0.024	0.013	6.17	0	17	37	1.018
	200	0.4453	0.0317	0.5708	1.260	11.357	0.025	0.000	0.015	0.009	8.00	0	25	60	1.005
	300	0.4295	0.0242	0.5852	1.308	15.468	0.021	0.003	0.012	0.006	8.88	0	29	89	1.005
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4433	0.0342	0.4759	1.164	4.880	0.029	0.003	0.015	0.010	5.06	0	15	35	1.018
	200	0.4080	0.0246	0.5127	1.213	6.742	0.020	0.000	0.011	0.007	6.45	0	21	56	1.006
	300	0.3898	0.0183	0.5253	1.245	11.793	0.016	0.001	0.010	0.005	6.99	0	23	84	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3523	0.0192	0.3591	1.148	4.186	0.010	0.002	0.004	0.003	3.25	0	10	30	1.012
	200	0.3215	0.0139	0.3939	1.177	5.032	0.013	0.001	0.005	0.004	4.01	0	14	49	1.006
	300	0.3106	0.0100	0.4040	1.186	6.120	0.009	0.000	0.006	0.004	4.19	0	14	66	1.002

Notes: See notes to Table 46.

Table 377: MC findings for DGPIV(a)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method															
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9471	0.0629	0.5632	1.042	7.015	0.805	0.003	0.668	0.091	9.83	6	17	28	1.790
	200	0.8986	0.0431	0.6309	1.070	9.868	0.624	0.002	0.471	0.049	12.05	6	24	41	1.616
	300	0.8506	0.0346	0.6683	1.097	12.109	0.452	0.002	0.325	0.030	13.63	5	29	50	1.444
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9419	0.0519	0.5195	1.039	6.837	0.793	0.004	0.630	0.121	8.75	5	15	26	1.789
	200	0.8944	0.0347	0.5822	1.064	9.321	0.617	0.003	0.444	0.065	10.38	5	21	38	1.627
	300	0.8505	0.0275	0.6174	1.086	11.315	0.463	0.005	0.315	0.060	11.54	5	25	47	1.468
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9254	0.0350	0.4305	1.035	6.740	0.754	0.015	0.531	0.186	7.06	4	12	20	1.782
	200	0.8793	0.0219	0.4787	1.054	8.484	0.606	0.014	0.388	0.112	7.82	4	15	28	1.639
	300	0.8469	0.0170	0.5083	1.070	9.964	0.492	0.013	0.301	0.085	8.42	4	18	37	1.530
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9158	0.0625	0.5693	1.053	8.565	0.684	0.003	0.569	0.082	9.67	5	17	28	1.660
	200	0.8474	0.0431	0.6427	1.090	11.657	0.424	0.002	0.321	0.041	11.84	5	24	41	1.409
	300	0.8041	0.0345	0.6786	1.116	13.507	0.270	0.002	0.194	0.025	13.44	5	29	50	1.253
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9130	0.0516	0.5256	1.049	8.242	0.683	0.003	0.540	0.108	8.61	5	15	26	1.672
	200	0.8463	0.0347	0.5935	1.082	11.014	0.437	0.004	0.313	0.055	10.18	5	21	38	1.433
	300	0.8053	0.0275	0.6280	1.105	12.650	0.292	0.004	0.199	0.049	11.35	4	25	47	1.283
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8950	0.0348	0.4370	1.045	8.126	0.651	0.011	0.459	0.168	6.92	4	11	20	1.659
	200	0.8364	0.0219	0.4892	1.071	10.067	0.450	0.011	0.284	0.093	7.64	4	15	28	1.468
	300	0.8015	0.0170	0.5193	1.088	11.375	0.328	0.009	0.199	0.066	8.23	3	18	37	1.346

Notes: See notes to Table 46.

Table 378: MC findings for DGPIV(a)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\hat{\pi}_{k+k^*}$	$\hat{\pi}^*$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method									
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9995	0.0655	0.5749	1.013	3.393	0.998	0.000	0.972	0.076	10.29	6	16	27	1.952
	200	0.9960	0.0442	0.6395	1.019	5.109	0.984	0.000	0.943	0.037	12.64	7	22	34	1.945
	300	0.9885	0.0361	0.6791	1.026	6.913	0.954	0.000	0.914	0.032	14.64	7	27	46	1.926
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9996	0.0546	0.5311	1.011	2.998	0.999	0.000	0.963	0.132	9.24	6	15	26	1.962
	200	0.9959	0.0358	0.5922	1.016	4.658	0.984	0.000	0.932	0.074	11.01	6	19	33	1.955
	300	0.9890	0.0291	0.6312	1.022	6.319	0.956	0.000	0.906	0.058	12.57	6	23	41	1.936
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9981	0.0384	0.4503	1.008	2.820	0.993	0.001	0.927	0.297	7.68	6	12	19	1.970
	200	0.9964	0.0236	0.4966	1.011	3.717	0.986	0.000	0.897	0.197	8.61	6	14	24	1.975
	300	0.9914	0.0184	0.5286	1.015	4.990	0.966	0.001	0.875	0.154	9.41	6	17	35	1.959
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9975	0.0651	0.5736	1.014	3.909	0.990	0.000	0.965	0.079	10.24	6	16	27	1.943
	200	0.9866	0.0440	0.6407	1.023	6.828	0.947	0.000	0.907	0.037	12.58	7	22	34	1.907
	300	0.9695	0.0360	0.6822	1.034	9.505	0.879	0.000	0.841	0.031	14.54	7	27	46	1.848
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9970	0.0543	0.5302	1.011	3.723	0.988	0.000	0.953	0.135	9.20	6	15	26	1.949
	200	0.9874	0.0357	0.5934	1.019	6.288	0.950	0.000	0.899	0.074	10.96	6	19	33	1.921
	300	0.9738	0.0290	0.6339	1.027	8.553	0.896	0.000	0.848	0.057	12.49	6	23	41	1.874
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9961	0.0383	0.4500	1.008	3.392	0.985	0.001	0.921	0.298	7.66	6	12	19	1.962
	200	0.9895	0.0236	0.4980	1.013	5.112	0.959	0.000	0.874	0.195	8.58	6	14	24	1.947
	300	0.9814	0.0183	0.5305	1.019	6.688	0.926	0.001	0.841	0.154	9.36	6	17	35	1.919

Notes: See notes to Table 46.

Table 379: MC findings for DGPIV(b)

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7655	0.1884	0.8042	1.663	19.135	0.241	0.000	21.15	6	38	58	1.134
	200	0.7340	0.1604	0.8714	2.522	71.144	0.149	0.001	34.38	7	67	198	1.074
	300	0.7253	0.1665	0.8993	4.358	400.842	0.136	0.000	52.18	8	91	290	1.414
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7524	0.1647	0.7770	1.582	16.540	0.221	0.000	18.83	5	36	56	1.127
	200	0.7206	0.1402	0.8504	2.262	51.485	0.125	0.001	30.37	6	62	84	1.058
	300	0.7109	0.1369	0.8812	6.916	6298.973	0.109	0.000	43.36	6	82	278	1.221
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7139	0.1224	0.7097	1.468	12.387	0.165	0.005	14.61	3	30	48	1.102
	200	0.6928	0.1037	0.7957	1.873	29.990	0.102	0.002	23.10	4	52	77	1.049
	300	0.6821	0.0953	0.8342	2.633	263.378	0.083	0.001	30.95	4	68	273	1.049
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7505	0.1878	0.8053	1.660	18.910	0.193	0.000	21.03	6	38	58	1.054
	200	0.7291	0.1600	0.8718	2.510	81.809	0.133	0.001	34.27	7	67	91	1.027
	300	0.7231	0.1650	0.8992	4.159	348.994	0.129	0.000	51.75	8	90.5	290	1.334
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7388	0.1643	0.7781	1.581	16.417	0.177	0.001	18.73	4.5	35.5	56	1.059
	200	0.7166	0.1401	0.8502	2.248	50.983	0.112	0.001	30.32	6	62	84	1.024
	300	0.7075	0.1348	0.8812	6.961	6304.200	0.099	0.000	42.74	6	82	272	1.140
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7021	0.1222	0.7108	1.473	12.442	0.125	0.003	14.54	3	30	48	1.049
	200	0.6879	0.1036	0.7957	1.871	29.952	0.088	0.001	23.06	3	52	77	1.020
	300	0.6791	0.0953	0.8341	2.619	257.369	0.074	0.001	30.93	3.5	68	273	1.033

Notes: See notes to Table 55.

Table 380: MC findings for DGPIV(b)

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9933	0.2159	0.8234	1.096	10.409	0.974	0.000	24.70	14	36	47	1.761
	200	0.9588	0.1852	0.8930	1.237	26.199	0.836	0.000	40.14	21	60	78	1.672
	300	0.9105	0.1703	0.9231	1.403	44.462	0.648	0.000	54.04	27	82	109	1.489
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9925	0.1904	0.8014	1.083	9.224	0.971	0.000	22.25	11	34	47	1.779
	200	0.9566	0.1638	0.8790	1.207	22.796	0.828	0.000	35.93	18	55	75	1.690
	300	0.9151	0.1507	0.9120	1.338	37.358	0.668	0.000	48.26	23	75	101	1.527
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9888	0.1447	0.7477	1.064	7.786	0.958	0.001	17.85	9	28	41	1.818
	200	0.9613	0.1237	0.8396	1.148	16.868	0.848	0.000	28.08	13	45	69	1.744
	300	0.9149	0.1139	0.8816	1.248	27.679	0.671	0.000	37.39	16	62	86	1.568
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9833	0.2144	0.8233	1.101	11.555	0.934	0.000	24.52	13	36	46	1.716
	200	0.9281	0.1848	0.8953	1.257	29.044	0.714	0.000	39.94	21	60	78	1.542
	300	0.8748	0.1701	0.9256	1.426	47.000	0.505	0.000	53.85	27	82	109	1.339
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9833	0.1892	0.8014	1.087	10.259	0.934	0.000	22.09	11	34	46	1.739
	200	0.9306	0.1635	0.8813	1.225	25.286	0.724	0.000	35.78	18	55	75	1.582
	300	0.8768	0.1506	0.9150	1.364	40.241	0.515	0.000	48.07	23	75	101	1.370
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9815	0.1439	0.7477	1.068	8.651	0.930	0.001	17.74	9	28	41	1.788
	200	0.9338	0.1235	0.8426	1.167	19.534	0.739	0.000	27.93	13	45	69	1.634
	300	0.8839	0.1138	0.8846	1.272	29.866	0.547	0.000	37.23	16	62	86	1.442

Notes: See notes to Table 55.

Table 381: MC findings for DGPIV(b)

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method													
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.2232	0.8312	1.042	7.744	1.000	0.000	25.43	15	36	51	1.794
	200	0.9998	0.1900	0.8960	1.089	15.086	0.999	0.000	41.25	25	58	73	1.812
	300	0.9973	0.1731	0.9223	1.142	24.641	0.989	0.000	55.24	33	78	101	1.807
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1980	0.8119	1.036	6.724	1.000	0.000	23.01	13	33	47	1.813
	200	0.9999	0.1684	0.8829	1.075	12.644	1.000	0.000	37.01	22	54	70	1.827
	300	0.9975	0.1529	0.9119	1.119	20.621	0.990	0.000	49.25	28	71	95	1.832
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	1.0000	0.1513	0.7625	1.025	5.052	1.000	0.000	18.52	10	28	41	1.866
	200	0.9998	0.1278	0.8473	1.052	8.944	0.999	0.000	29.05	15.5	44	59	1.872
	300	0.9983	0.1158	0.8837	1.080	14.102	0.993	0.000	38.28	19	58	80	1.874
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.2207	0.8293	1.040	7.387	1.000	0.000	25.19	15	36	51	1.790
	200	0.9990	0.1892	0.8955	1.086	14.856	0.996	0.000	41.09	25	58	73	1.805
	300	0.9924	0.1728	0.9224	1.144	25.744	0.970	0.000	55.13	32	78	101	1.785
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1961	0.8101	1.034	6.446	1.000	0.000	22.83	13	33	47	1.812
	200	0.9994	0.1677	0.8824	1.073	12.498	0.998	0.000	36.88	21	54	70	1.825
	300	0.9925	0.1527	0.9121	1.121	21.925	0.970	0.000	49.16	28	71	95	1.812
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	1.0000	0.1500	0.7603	1.025	4.914	1.000	0.000	18.40	10	28	41	1.866
	200	0.9991	0.1274	0.8466	1.051	9.005	0.997	0.000	28.96	15	44	59	1.870
	300	0.9944	0.1157	0.8838	1.082	15.437	0.978	0.000	38.22	19	58	80	1.858

Notes: See notes to Table 55.

Table 382: MC findings for DGPIV(b)

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.6609	0.1199	0.7022	1.392	11.392	0.091	0.001	14.16	2	32	52	1.032
	200	0.6486	0.1003	0.7848	1.800	33.631	0.075	0.000	22.25	3	53	79	1.034
	300	0.6305	0.0989	0.8203	2.685	157.964	0.078	0.000	31.78	2	74	297	1.140
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.6394	0.1006	0.6590	1.340	9.378	0.070	0.001	12.22	2	29	47	1.031
	200	0.6269	0.0845	0.7456	1.644	23.881	0.062	0.000	19.08	2	48.5	75	1.023
	300	0.6093	0.0814	0.7857	2.514	265.808	0.065	0.000	26.53	2	68	279	1.077
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.5944	0.0682	0.5581	1.257	6.618	0.050	0.001	8.93	1	23	43	1.019
	200	0.5789	0.0575	0.6499	1.438	14.727	0.045	0.002	13.58	1	38	66	1.017
	300	0.5596	0.0539	0.6991	1.780	53.860	0.039	0.001	18.19	1	53	270	1.014
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.6590	0.1197	0.7015	1.387	11.306	0.084	0.001	14.13	2	32	52	1.011
	200	0.6469	0.1001	0.7836	1.792	33.386	0.071	0.000	22.21	3	53	79	1.007
	300	0.6296	0.0977	0.8195	2.810	338.184	0.074	0.000	31.45	2	74	297	1.100
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.6376	0.1004	0.6581	1.336	9.305	0.065	0.001	12.19	2	29	47	1.013
	200	0.6259	0.0845	0.7447	1.639	23.654	0.061	0.000	19.06	2	48.5	75	1.006
	300	0.6090	0.0811	0.7848	2.284	113.269	0.064	0.000	26.44	2	68	279	1.058
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.5929	0.0681	0.5573	1.256	6.591	0.046	0.001	8.91	1	23	43	1.007
	200	0.5773	0.0574	0.6495	1.434	14.682	0.041	0.001	13.56	1	38	66	1.003
	300	0.5591	0.0539	0.6989	1.777	53.791	0.037	0.000	18.18	1	53	270	1.006

Notes: See notes to Table 55.

Table 383: MC findings for DGPIV(b)

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9179	0.1484	0.7581	1.083	9.237	0.677	0.002	17.92	8	30	43	1.568
	200	0.8546	0.1238	0.8482	1.164	17.385	0.430	0.000	27.68	11	49	70	1.324
	300	0.8189	0.1127	0.8859	1.252	25.368	0.293	0.000	36.63	14	64	95	1.193
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9119	0.1269	0.7241	1.074	8.475	0.655	0.004	15.83	7	27	41	1.562
	200	0.8504	0.1061	0.8236	1.142	15.359	0.417	0.000	24.20	9	44	66	1.323
	300	0.8148	0.0961	0.8651	1.215	21.443	0.284	0.001	31.70	11	57.5	92	1.195
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8925	0.0894	0.6409	1.065	7.571	0.588	0.012	12.15	5	22	34	1.526
	200	0.8380	0.0745	0.7556	1.112	12.099	0.382	0.005	17.95	6	35	58	1.319
	300	0.8031	0.0672	0.8061	1.158	15.886	0.252	0.003	23.09	7	45	80	1.196
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8774	0.1479	0.7649	1.094	10.248	0.515	0.002	17.71	8	29	43	1.400
	200	0.8220	0.1236	0.8529	1.172	17.956	0.299	0.000	27.52	11	49	70	1.183
	300	0.7950	0.1126	0.8889	1.258	25.682	0.197	0.000	36.52	13	64	95	1.088
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8716	0.1265	0.7317	1.087	9.501	0.497	0.004	15.63	7	27	41	1.398
	200	0.8185	0.1060	0.8287	1.151	15.939	0.290	0.000	24.05	9	44	66	1.190
	300	0.7899	0.0960	0.8686	1.221	21.839	0.185	0.001	31.59	11	57.5	92	1.089
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8553	0.0892	0.6490	1.076	8.477	0.440	0.009	11.99	5	21.5	34	1.376
	200	0.8074	0.0744	0.7612	1.121	12.736	0.261	0.004	17.82	6	35	58	1.196
	300	0.7803	0.0671	0.8099	1.166	16.316	0.162	0.002	22.99	7	45	80	1.100

Notes: See notes to Table 55.

Table 384: MC findings for DGPIV(b)

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9938	0.1578	0.7689	1.030	6.202	0.975	0.000	19.12	10	29	42	1.822
	200	0.9744	0.1297	0.8490	1.062	11.739	0.898	0.000	29.32	15	46	63	1.777
	300	0.9513	0.1162	0.8851	1.097	17.694	0.806	0.000	38.19	18	60.5	83	1.701
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.9934	0.1360	0.7382	1.026	5.561	0.974	0.001	17.03	9	27	40	1.842
	200	0.9733	0.1113	0.8249	1.053	10.342	0.893	0.001	25.70	12	42	59	1.793
	300	0.9511	0.0997	0.8659	1.081	15.082	0.805	0.000	33.31	15	54.5	76	1.718
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.9891	0.0968	0.6599	1.020	4.956	0.959	0.003	13.25	7	21	36	1.860
	200	0.9709	0.0785	0.7604	1.038	8.412	0.885	0.002	19.28	9	33	51	1.815
	300	0.9509	0.0705	0.8124	1.058	11.670	0.804	0.000	24.66	10	42	62	1.746
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.9834	0.1571	0.7697	1.032	7.165	0.934	0.000	19.02	10	29	42	1.779
	200	0.9468	0.1294	0.8519	1.070	13.799	0.787	0.000	29.15	15	46	63	1.663
	300	0.9114	0.1160	0.8891	1.109	20.099	0.646	0.000	37.99	18	60	83	1.539
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.9816	0.1355	0.7395	1.028	6.698	0.928	0.001	16.93	9	27	40	1.793
	200	0.9478	0.1111	0.8281	1.060	12.231	0.791	0.001	25.57	12	41	59	1.689
	300	0.9120	0.0996	0.8701	1.092	17.590	0.649	0.000	33.13	15	54	76	1.560
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.9761	0.0966	0.6621	1.024	6.176	0.907	0.003	13.18	7	21	36	1.807
	200	0.9461	0.0784	0.7645	1.046	10.135	0.786	0.002	19.16	8	33	51	1.715
	300	0.9149	0.0704	0.8175	1.069	13.922	0.660	0.000	24.51	10	42	62	1.602

Notes: See notes to Table 55.

Table 385: MC findings for DGPIV(b)

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4990	0.0590	0.5464	1.184	5.574	0.038	0.000	7.66	0	22	40	1.017
	200	0.4730	0.0503	0.6271	1.352	13.568	0.038	0.000	11.76	0	36	69	1.012
	300	0.4484	0.0412	0.6602	1.579	44.518	0.028	0.000	13.98	0	46	271	1.021
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4621	0.0462	0.4846	1.154	4.423	0.032	0.000	6.28	0	19	39	1.008
	200	0.4394	0.0401	0.5753	1.277	9.408	0.030	0.000	9.62	0	31	63	1.007
	300	0.4168	0.0323	0.6014	1.397	19.702	0.021	0.000	11.22	0	39	255	1.012
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3894	0.0268	0.3459	1.125	3.080	0.019	0.001	4.13	0	14	34	1.002
	200	0.3698	0.0242	0.4551	1.188	5.379	0.018	0.000	6.22	0	23	57	1.003
	300	0.3494	0.0189	0.4591	1.247	9.673	0.013	0.000	7.01	0	27	85	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4985	0.0589	0.5459	1.178	5.323	0.038	0.000	7.65	0	22	40	1.002
	200	0.4725	0.0503	0.6267	1.344	12.697	0.038	0.000	11.75	0	36	69	1.003
	300	0.4481	0.0409	0.6600	1.576	52.982	0.028	0.000	13.90	0	46	271	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4619	0.0461	0.4842	1.153	4.361	0.031	0.000	6.27	0	19	39	1.002
	200	0.4393	0.0401	0.5750	1.275	9.380	0.030	0.000	9.62	0	31	63	1.002
	300	0.4166	0.0322	0.6012	1.388	19.740	0.021	0.000	11.21	0	39	244	1.004
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3891	0.0268	0.3457	1.124	3.073	0.019	0.001	4.13	0	14	34	1.000
	200	0.3696	0.0242	0.4552	1.187	5.348	0.018	0.000	6.22	0	23	57	1.001
	300	0.3494	0.0189	0.4590	1.246	9.670	0.013	0.000	7.00	0	27	85	1.000

Notes: See notes to Table 55.

Table 386: MC findings for DGPIV(b)

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.7913	0.0821	0.6368	1.056	5.829	0.225	0.008	11.05	4	21	34	1.166
	200	0.7580	0.0622	0.7222	1.083	8.031	0.116	0.003	15.22	4	33	53	1.077
	300	0.7430	0.0547	0.7688	1.111	10.641	0.080	0.002	19.15	5	42	78	1.047
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.7810	0.0662	0.5802	1.051	5.396	0.204	0.013	9.48	3	18	33	1.154
	200	0.7483	0.0502	0.6696	1.073	7.152	0.098	0.005	12.82	4	28	46	1.071
	300	0.7350	0.0439	0.7220	1.094	9.015	0.068	0.003	15.93	4	36	68	1.041
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.7498	0.0413	0.4609	1.044	4.871	0.139	0.016	6.97	3	14	26	1.112
	200	0.7235	0.0312	0.5452	1.057	5.859	0.067	0.006	9.00	3	22	39	1.050
	300	0.7123	0.0270	0.5983	1.070	6.870	0.041	0.004	10.84	3	26	57	1.027
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.7701	0.0820	0.6412	1.058	5.969	0.143	0.003	10.95	4	21	34	1.075
	200	0.7468	0.0621	0.7243	1.083	8.044	0.073	0.001	15.16	4	33	53	1.023
	300	0.7364	0.0546	0.7700	1.110	10.564	0.054	0.000	19.11	4	42	78	1.011
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.7600	0.0662	0.5847	1.053	5.536	0.122	0.005	9.39	3	18	33	1.067
	200	0.7376	0.0501	0.6716	1.074	7.186	0.058	0.003	12.77	4	28	46	1.023
	300	0.7283	0.0439	0.7232	1.094	9.028	0.041	0.001	15.89	4	36	68	1.010
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.7344	0.0413	0.4640	1.046	4.958	0.079	0.009	6.90	3	14	26	1.049
	200	0.7158	0.0312	0.5469	1.058	5.903	0.039	0.003	8.97	3	22	39	1.017
	300	0.7088	0.0270	0.5987	1.070	6.860	0.028	0.002	10.82	3	26	57	1.010

Notes: See notes to Table 55.

Table 387: MC findings for DGPIV(b)

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_k$	$\hat{\pi}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method								
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.9071	0.0875	0.6511	1.027	5.781	0.633	0.008	12.03	6	20	32	1.566
	200	0.8551	0.0659	0.7425	1.046	8.567	0.429	0.001	16.35	7	30	54	1.367
	300	0.8265	0.0564	0.7895	1.058	10.214	0.315	0.001	19.99	7	37	64	1.263
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.8974	0.0719	0.6038	1.025	5.623	0.596	0.010	10.50	5	18	29	1.539
	200	0.8488	0.0534	0.6962	1.042	7.903	0.406	0.004	13.86	6	26	44	1.357
	300	0.8213	0.0455	0.7463	1.050	9.141	0.296	0.002	16.75	6	32	55	1.250
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.8714	0.0461	0.4956	1.024	5.469	0.500	0.025	7.91	4	14	24	1.464
	200	0.8315	0.0332	0.5815	1.035	6.988	0.350	0.011	9.84	4	19	34	1.319
	300	0.8063	0.0281	0.6369	1.041	7.861	0.245	0.010	11.53	4	23	43	1.220
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.8620	0.0873	0.6611	1.033	6.639	0.453	0.006	11.83	5	20	32	1.381
	200	0.8130	0.0659	0.7510	1.052	9.309	0.261	0.001	16.16	6	29	54	1.195
	300	0.7905	0.0563	0.7962	1.062	10.777	0.171	0.001	19.84	7	37	64	1.113
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.8538	0.0718	0.6141	1.031	6.420	0.422	0.007	10.31	5	18	29	1.363
	200	0.8099	0.0533	0.7045	1.047	8.566	0.250	0.003	13.69	5	26	44	1.199
	300	0.7886	0.0455	0.7531	1.054	9.678	0.166	0.001	16.61	6	32	55	1.118
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.8345	0.0461	0.5047	1.028	6.058	0.355	0.019	7.76	4	14	24	1.316
	200	0.7968	0.0332	0.5898	1.039	7.550	0.211	0.008	9.70	4	19	34	1.179
	300	0.7784	0.0281	0.6433	1.044	8.278	0.135	0.006	11.42	4	23	43	1.108

Notes: See notes to Table 55.

6.5 Findings for designs with nonzero slopes (all variables are signals)

Table 388: MC findings for DGPV

$T = 100$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3865	0.1780	0.7403	1.333	3.646	0.001	20.09	5	38	50	1.028
	200	0.3690	0.1562	0.8369	2.087	20.888	0.002	33.59	6	66	91	1.024
	300	0.3699	0.1712	0.8766	4.507	1287.204	0.012	53.55	7	98	297	1.472
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3651	0.1558	0.7134	1.257	2.984	0.001	17.88	4	35	47	1.018
	200	0.3495	0.1361	0.8174	1.836	11.494	0.000	29.56	4.5	60	89	1.015
	300	0.3437	0.1393	0.8597	3.171	72.179	0.010	44.02	5	85.5	291	1.247
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3249	0.1140	0.6484	1.143	2.009	0.000	13.72	2	29	42	1.008
	200	0.3102	0.1001	0.7647	1.501	6.229	0.000	22.33	3	50	81	1.007
	300	0.2978	0.0950	0.8120	2.335	66.352	0.001	30.72	3	70	280	1.024
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3860	0.1778	0.7401	1.324	3.552	0.001	20.07	5	37.5	50	1.007
	200	0.3689	0.1561	0.8367	2.071	20.668	0.002	33.57	6	66	91	1.004
	300	0.3693	0.1701	0.8767	4.182	312.408	0.013	53.22	7	98	297	1.425
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3645	0.1557	0.7134	1.253	2.960	0.001	17.87	4	35	47	1.004
	200	0.3492	0.1360	0.8176	1.827	11.304	0.000	29.55	4.5	60	89	1.003
	300	0.3427	0.1381	0.8596	3.180	75.743	0.008	43.67	5	85.5	294	1.193
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3246	0.1139	0.6486	1.141	1.998	0.000	13.71	2	29	42	1.002
	200	0.3100	0.1001	0.7649	1.499	6.209	0.000	22.32	3	50	81	1.002
	300	0.2977	0.0949	0.8121	2.359	69.049	0.001	30.71	3	70	280	1.021

Notes: See notes to Table 91.

Table 389: MC findings for DGPV

$T = 300$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4902	0.2055	0.7577	1.068	2.741	0.003	23.69	12	36	47	1.023
	200	0.4700	0.1789	0.8566	1.179	6.383	0.002	38.99	19	59.5	79	1.011
	300	0.4513	0.1660	0.8977	1.305	10.678	0.002	52.93	25.5	82	101	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4711	0.1802	0.7375	1.056	2.351	0.003	21.22	10	33	44	1.016
	200	0.4490	0.1574	0.8437	1.147	5.276	0.002	34.69	16	54	73	1.009
	300	0.4332	0.1463	0.8879	1.251	8.736	0.001	47.05	21.5	75	98	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4298	0.1345	0.6878	1.036	1.736	0.000	16.70	7	27	38	1.008
	200	0.4135	0.1182	0.8077	1.099	3.606	0.001	26.89	11	44	64	1.006
	300	0.3977	0.1098	0.8609	1.166	5.730	0.000	36.12	14.5	61	83	1.004
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4889	0.2054	0.7582	1.067	2.713	0.003	23.66	12	36	47	1.002
	200	0.4696	0.1789	0.8567	1.179	6.343	0.002	38.98	19	59.5	79	1.002
	300	0.4510	0.1659	0.8977	1.304	10.648	0.002	52.92	25	82	101	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4700	0.1802	0.7380	1.056	2.317	0.003	21.21	10	33	44	1.002
	200	0.4485	0.1574	0.8439	1.147	5.256	0.002	34.68	16	54	73	1.002
	300	0.4330	0.1463	0.8879	1.251	8.723	0.001	47.04	21.5	75	98	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4292	0.1345	0.6881	1.036	1.730	0.000	16.69	7	27	38	1.002
	200	0.4131	0.1182	0.8078	1.099	3.600	0.001	26.88	11	44	64	1.001
	300	0.3976	0.1098	0.8610	1.165	5.723	0.000	36.11	14	61	83	1.000

Notes: See notes to Table 91.

Table 390: MC findings for DGPV

$T = 500$, $R^2 = 70\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\bar{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\bar{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.5342	0.2060	0.7456	1.033	2.544	0.005	24.21	14	36	47	1.020
	200	0.5079	0.1820	0.8533	1.077	5.111	0.005	39.99	24	57	72	1.008
	300	0.4996	0.1689	0.8936	1.130	8.091	0.001	54.31	32	78.5	108	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.5159	0.1810	0.7246	1.028	2.255	0.003	21.79	12	33	47	1.018
	200	0.4908	0.1607	0.8406	1.065	4.367	0.004	35.76	20	53	67	1.007
	300	0.4835	0.1490	0.8835	1.108	6.732	0.001	48.39	28	71.5	105	1.008
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4745	0.1349	0.6750	1.019	1.725	0.000	17.23	9	27	38	1.011
	200	0.4551	0.1202	0.8053	1.043	3.121	0.001	27.72	14	43	60	1.006
	300	0.4486	0.1120	0.8563	1.073	4.581	0.000	37.32	19	57.5	86	1.003
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.5332	0.2059	0.7459	1.032	2.530	0.005	24.19	14	36	47	1.006
	200	0.5077	0.1820	0.8534	1.077	5.090	0.005	39.99	24	57	72	1.002
	300	0.4994	0.1689	0.8937	1.129	8.050	0.001	54.30	32	78.5	108	1.001
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.5145	0.1810	0.7252	1.028	2.241	0.003	21.77	12	33	47	1.004
	200	0.4905	0.1607	0.8407	1.065	4.359	0.004	35.76	20	53	67	1.003
	300	0.4831	0.1490	0.8836	1.108	6.713	0.001	48.38	28	71.5	105	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4738	0.1349	0.6753	1.019	1.722	0.000	17.22	9	27	38	1.004
	200	0.4547	0.1202	0.8055	1.043	3.113	0.001	27.72	14	43	60	1.003
	300	0.4484	0.1120	0.8564	1.073	4.579	0.000	37.31	19	57.5	86	1.000

Notes: See notes to Table 91.

Table 391: MC findings for DGPV

$T = 100$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3157	0.1193	0.6499	1.165	2.329	0.001	14.09	2	31	54	1.014
	200	0.2958	0.0996	0.7558	1.527	7.378	0.000	22.09	2	54	88	1.014
	300	0.2873	0.0942	0.7922	3.393	354.677	0.004	30.39	2	75	280	1.109
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2937	0.1002	0.6096	1.112	1.930	0.001	12.15	1	28	49	1.010
	200	0.2762	0.0841	0.7195	1.408	5.766	0.000	18.94	2	48	83	1.013
	300	0.2693	0.0785	0.7539	1.970	22.523	0.004	25.65	1.5	67	271	1.074
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2525	0.0677	0.5192	1.031	1.236	0.000	8.80	1	23	42	1.002
	200	0.2402	0.0570	0.6242	1.209	3.295	0.000	13.41	1	38	71	1.005
	300	0.2323	0.0522	0.6671	1.542	13.222	0.000	17.63	1	53	253	1.010
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3155	0.1192	0.6496	1.159	2.270	0.001	14.08	2	31	54	1.003
	200	0.2955	0.0996	0.7556	1.523	7.315	0.000	22.07	2	53.5	88	1.003
	300	0.2870	0.0942	0.7923	3.401	354.539	0.003	30.38	2	75	296	1.088
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2935	0.1002	0.6097	1.108	1.897	0.001	12.14	1	28	49	1.001
	200	0.2760	0.0841	0.7190	1.404	5.716	0.000	18.93	2	48	83	1.002
	300	0.2688	0.0779	0.7538	1.981	32.820	0.003	25.48	1.5	67	271	1.048
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2524	0.0676	0.5192	1.030	1.231	0.000	8.80	1	23	42	1.000
	200	0.2401	0.0570	0.6242	1.208	3.284	0.000	13.41	1	38	71	1.001
	300	0.2322	0.0522	0.6671	1.534	13.096	0.000	17.63	1	53	253	1.005

Notes: See notes to Table 91.

Table 392: MC findings for DGPV

$T = 300$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
					OCMT method							
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4205	0.1424	0.6991	1.036	1.797	0.001	17.30	7	29	42	1.013
	200	0.4072	0.1226	0.8116	1.093	3.794	0.000	27.65	10	49	75	1.005
	300	0.3940	0.1094	0.8560	1.163	6.244	0.002	35.96	11	65	91	1.010
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3999	0.1210	0.6678	1.027	1.541	0.000	15.17	6	26.5	39	1.009
	200	0.3890	0.1049	0.7885	1.074	3.108	0.000	24.11	8	44	74	1.003
	300	0.3774	0.0933	0.8362	1.127	4.930	0.002	31.11	9	58	81	1.007
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3629	0.0834	0.5892	1.013	1.118	0.000	11.41	4	21	34	1.003
	200	0.3534	0.0732	0.7262	1.043	2.075	0.000	17.71	5	35	63	1.001
	300	0.3436	0.0649	0.7816	1.072	3.072	0.001	22.53	6	45.5	72	1.002
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4200	0.1423	0.6992	1.035	1.770	0.001	17.29	7	29	42	1.001
	200	0.4071	0.1226	0.8116	1.093	3.781	0.000	27.65	10	49	75	1.001
	300	0.3939	0.1094	0.8560	1.162	6.184	0.002	35.95	11	65	91	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3996	0.1210	0.6680	1.026	1.517	0.000	15.16	6	26.5	39	1.000
	200	0.3890	0.1049	0.7885	1.074	3.104	0.000	24.10	8	44	74	1.001
	300	0.3773	0.0933	0.8362	1.126	4.889	0.002	31.11	9	58	81	1.001
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3628	0.0834	0.5893	1.012	1.113	0.000	11.41	4	21	34	1.001
	200	0.3534	0.0732	0.7262	1.043	2.075	0.000	17.71	5	35	63	1.001
	300	0.3435	0.0649	0.7816	1.072	3.067	0.001	22.53	6	45.5	72	1.000

Notes: See notes to Table 91.

Table 393: MC findings for DGPV

$T = 500$, $R^2 = 50\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
						OCMT method						
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.4753	0.1457	0.6918	1.019	1.747	0.002	18.20	9	29	39	1.014
	200	0.4494	0.1241	0.8080	1.043	3.207	0.001	28.40	13	45	63	1.009
	300	0.4406	0.1131	0.8575	1.072	4.776	0.001	37.54	17	61	95	1.008
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.4555	0.1241	0.6619	1.015	1.513	0.001	16.06	8	26	36	1.007
	200	0.4328	0.1056	0.7847	1.034	2.695	0.001	24.72	11	40	59	1.005
	300	0.4247	0.0963	0.8387	1.056	3.891	0.001	32.50	14	54	85	1.003
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.4165	0.0861	0.5873	1.009	1.154	0.001	12.24	6	21	31	1.002
	200	0.3980	0.0738	0.7227	1.020	1.880	0.001	18.32	7	32	47	1.001
	300	0.3935	0.0670	0.7867	1.036	2.589	0.001	23.70	9	42	71	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.4749	0.1457	0.6919	1.018	1.730	0.002	18.19	9	29	39	1.001
	200	0.4494	0.1241	0.8079	1.043	3.182	0.001	28.40	13	45	63	1.001
	300	0.4405	0.1131	0.8575	1.071	4.745	0.001	37.53	17	61	95	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.4552	0.1241	0.6620	1.014	1.506	0.001	16.05	8	26	36	1.001
	200	0.4327	0.1056	0.7848	1.034	2.676	0.001	24.72	11	40	59	1.000
	300	0.4247	0.0963	0.8387	1.056	3.883	0.001	32.50	14	54	85	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.4165	0.0861	0.5873	1.009	1.152	0.001	12.24	6	21	31	1.000
	200	0.3980	0.0738	0.7228	1.020	1.879	0.001	18.32	7	32	47	1.000
	300	0.3935	0.0670	0.7867	1.036	2.589	0.001	23.70	9	42	71	1.000

Notes: See notes to Table 91.

Table 394: MC findings for DGPV

$T = 100$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.2255	0.0604	0.5014	1.005	1.173	0.000	7.85	0	22.5	45	1.007
	200	0.2014	0.0476	0.6012	1.146	2.724	0.000	11.21	0	37	67	1.007
	300	0.1880	0.0398	0.6240	1.342	10.240	0.000	13.58	0	48	254	1.013
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.2042	0.0477	0.4445	0.982	0.937	0.000	6.49	0	19.5	41	1.004
	200	0.1853	0.0376	0.5374	1.087	1.905	0.000	9.14	0	32	60	1.003
	300	0.1717	0.0315	0.5658	1.216	5.950	0.000	10.99	0	40	245	1.011
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.1668	0.0275	0.3211	0.954	0.625	0.000	4.28	0	14	34	1.002
	200	0.1515	0.0222	0.4117	1.009	1.039	0.000	5.86	0	23	46	1.001
	300	0.1401	0.0185	0.4356	1.060	2.262	0.000	6.90	0	29	70	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.2254	0.0603	0.5004	1.004	1.162	0.000	7.85	0	22.5	45	1.001
	200	0.2014	0.0475	0.6005	1.142	2.702	0.000	11.20	0	37	67	1.000
	300	0.1879	0.0398	0.6238	1.337	11.415	0.000	13.57	0	48	253	1.006
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.2042	0.0477	0.4438	0.981	0.930	0.000	6.49	0	19	41	1.000
	200	0.1853	0.0376	0.5372	1.085	1.878	0.000	9.14	0	32	60	1.000
	300	0.1715	0.0312	0.5655	1.214	5.879	0.000	10.91	0	40	90	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.1668	0.0275	0.3210	0.954	0.620	0.000	4.28	0	14	34	1.001
	200	0.1515	0.0222	0.4114	1.009	1.036	0.000	5.86	0	23	46	1.000
	300	0.1401	0.0185	0.4356	1.060	2.262	0.000	6.90	0	29	70	1.001

Notes: See notes to Table 91.

Table 395: MC findings for DGPV

$T = 300$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3401	0.0719	0.5557	1.007	1.005	0.000	10.14	3	20	31	1.004
	200	0.3260	0.0588	0.6841	1.031	1.663	0.001	14.70	4	31	60	1.004
	300	0.3120	0.0518	0.7406	1.053	2.489	0.000	18.41	4	42	91	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3191	0.0573	0.5061	1.002	0.859	0.000	8.61	3	18	29	1.003
	200	0.3087	0.0472	0.6354	1.021	1.343	0.000	12.31	3	27	55	1.003
	300	0.2960	0.0418	0.6961	1.038	1.968	0.000	15.33	3	36.5	80	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.2848	0.0339	0.3839	0.994	0.635	0.000	6.15	2	14	24	1.001
	200	0.2761	0.0283	0.5149	1.005	0.883	0.000	8.38	2	19.5	47	1.002
	300	0.2666	0.0250	0.5739	1.014	1.220	0.000	10.16	2	26	59	1.001
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3400	0.0719	0.5556	1.007	1.001	0.000	10.14	3	20	31	1.001
	200	0.3260	0.0588	0.6840	1.030	1.655	0.001	14.69	4	31	60	1.001
	300	0.3120	0.0518	0.7406	1.053	2.480	0.000	18.41	4	42	91	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3191	0.0573	0.5059	1.002	0.856	0.000	8.61	3	18	29	1.000
	200	0.3087	0.0472	0.6353	1.020	1.339	0.000	12.31	3	27	55	1.001
	300	0.2960	0.0418	0.6961	1.038	1.963	0.000	15.32	3	36.5	80	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.2847	0.0339	0.3839	0.994	0.635	0.000	6.15	2	14	24	1.000
	200	0.2761	0.0282	0.5148	1.005	0.879	0.000	8.38	2	19.5	47	1.000
	300	0.2666	0.0250	0.5739	1.014	1.220	0.000	10.16	2	26	59	1.000

Notes: See notes to Table 91.

Table 396: MC findings for DGPV

$T = 500$, $R^2 = 30\%$, NG-SC (non-Gaussian innovations with serially correlated covariates)

	N	TPR	FPR	FDR	rRMSFE	rRMSE$_{\tilde{\beta}}$	$\hat{\pi}_{11}$	$\overline{\hat{\kappa}}$	$\hat{\kappa}_5$	$\hat{\kappa}_{95}$	$\hat{\kappa}_{\max}$	$\overline{\hat{P}}$
OCMT method												
$p = 0.1$, $\delta = 1$, $\delta^* = 1.5$	100	0.3885	0.0762	0.5636	1.006	1.073	0.000	11.05	5	20	29	1.007
	200	0.3684	0.0613	0.6906	1.016	1.579	0.000	15.63	6	29	53	1.007
	300	0.3623	0.0548	0.7524	1.027	2.007	0.000	19.82	6	38	63	1.002
$p = 0.05$, $\delta = 1$, $\delta^* = 1.5$	100	0.3702	0.0604	0.5104	1.004	0.924	0.000	9.44	4	17	28	1.005
	200	0.3517	0.0490	0.6431	1.012	1.320	0.000	13.12	4	25	49	1.003
	300	0.3469	0.0441	0.7095	1.020	1.668	0.000	16.55	5	33	55	1.002
$p = 0.01$, $\delta = 1$, $\delta^* = 1.5$	100	0.3359	0.0359	0.3930	0.999	0.710	0.000	6.89	3	13	22	1.002
	200	0.3195	0.0296	0.5268	1.005	0.948	0.000	9.11	3	18	35	1.001
	300	0.3174	0.0268	0.5979	1.009	1.140	0.000	11.25	3	24	45	1.000
$p = 0.1$, $\delta = 1$, $\delta^* = 2$	100	0.3885	0.0761	0.5635	1.006	1.054	0.000	11.05	5	20	29	1.001
	200	0.3684	0.0612	0.6905	1.016	1.562	0.000	15.62	6	29	53	1.001
	300	0.3623	0.0548	0.7524	1.027	2.004	0.000	19.82	6	38	63	1.000
$p = 0.05$, $\delta = 1$, $\delta^* = 2$	100	0.3701	0.0603	0.5103	1.004	0.920	0.000	9.44	4	17	28	1.002
	200	0.3517	0.0490	0.6430	1.012	1.310	0.000	13.12	4	25	49	1.000
	300	0.3469	0.0440	0.7095	1.020	1.664	0.000	16.55	5	33	55	1.000
$p = 0.01$, $\delta = 1$, $\delta^* = 2$	100	0.3359	0.0359	0.3929	0.999	0.707	0.000	6.89	3	13	22	1.000
	200	0.3195	0.0296	0.5267	1.005	0.946	0.000	9.11	3	18	35	1.000
	300	0.3174	0.0268	0.5979	1.009	1.140	0.000	11.25	3	24	45	1.000

Notes: See notes to Table 91.

7 Supplementary Material for Empirical Illustration

This section contains supplementary material for the empirical illustration in Section 6 of CKP. It is organized in two subsection. Subsection 7.1 describes the forecasting exercise, and Subsection 7.2 reports additional empirical results.

7.1 Description of the forecasting exercise

We forecast the U.S. GDP growth and CPI inflation using a set of macroeconomic variables. We use the smaller dataset considered in Stock and Watson (2012), which contains 109 series. The series are transformed by taking logarithms and/or differencing following Stock and Watson (2012).[2] After transformations, the available sample is 1960Q3:2008Q4, or $T = 194$. Let $\mathbf{z}_t = (z_{1t}, z_{2t}, ..., z_{nt})'$ be a vector of the 109 transformed variables. Let $n = 109 + 1 = 110$ and define the $n \times 1$ vector $\mathbf{x}_t = (\mathbf{z}_t, y_t)'$ considered below, where y_t is either the first-differenced log of real gross domestic product, or the second differenced log of consumer price index.

We are interested in forecasting y_{t+1} with the predictors in $\mathbf{x}_t$, in a linear setting,

$$y_{t+h} = c + \sum_{i=1}^{n} \beta_i x_{it} + u_t,$$

where $h = 1$ is the forecasting horizon. We consider:

(a) the AR(1) model,

$$y_t = \rho y_{t-1} + v_t,$$

which we use as a benchmark.

Data-rich forecasting methods are:

(b) The factor-augmented AR(1),

$$y_t = \rho y_{t-1} + \boldsymbol{\gamma}' \mathbf{f}_{t-1} + v_t,$$

where $\mathbf{f}_t$ is $m \times 1$ vector of unobserved common factors extracted from variables in $\{\mathbf{z}_t^s\}$, where $\mathbf{z}_t^s$ is the standardized $\mathbf{z}_t$ (by subtracting its sample mean and dividing each series by its sample standard deviation). We use Bai and Ng's PC_{p1} criterion to select the number of factors (m) with the maximum number of factors set to 5. The vector of unobserved factors, $\mathbf{f}_t$, is estimated using the method of principal components.

(c) Lasso method, implemented in the same way as described in Section 2 of this supplement using $\left(\mathbf{x}'_{t-1}, \mathbf{f}'_{t-1}\right)$ as the vector of predictors for y_t.

(d) Adaptive Lasso method, implemented in the same way as described in Section 2 of this supplement using $\left(\mathbf{x}'_{t-1}, \mathbf{f}'_{t-1}\right)$ as the vector of predictors for y_t.

(e-g) OCMT method. We use OCMT described in CKP to select the relevant variables from the vector $\mathbf{x}_{t-1}$ to forecasts the target variable y_t. We set $p = 0.01$ (e), 0.05 (f) and 0.1 (g), and $(\delta, \delta^*) = (1, 2)$, and we always include c (intercept) , and $\mathbf{f}_{t-1}$ (lagged factors) in the testing regressions. Next, we use the selected variables together with c, and $\mathbf{f}_{t-1}$ in an ordinary least squares regression for y_t.

[2] For further details, see the online supplement of Stock and Watson (2012), in particular columns E and T of their Table B.1.

We use a rolling window of $T = 120$ time periods, which leaves us with the last $H = 74$ out-of-sample evaluation periods, 1990Q3-2008Q4. We also consider pre-crisis evaluation subsample, 1990Q3-2007Q2 with $H = 68$ periods, to evaluate the sensitivity of results to exclusion of the global financial crisis from the sample.

7.2 Results

Table 397 reports the root means squared forecasting error (RMSFE) findings for all forecasting methods. Diebold-Mariano (DM) test statistics for testing $H_0 : E\left(\hat{v}_{ij,t}\right) = 0$, where $\hat{v}_{ij,t} = \hat{e}^2_{i,t} - \hat{e}^2_{j,t}$ is the difference between the squared forecasting errors of methods i and j, are presented in Table 398. The DM statistics is computed assuming serially uncorrelated one-step-ahead forecasting errors. Specifically

$$DM_{ij} = \sqrt{H}\frac{\bar{\hat{v}}_{H,ij}}{\hat{\sigma}_{H,ij}}, \tag{4}$$

where $H = 68$ or 74 (depending on the evaluation period) is the length of the evaluation period, $\bar{\hat{v}}_{H,ij} = H^{-1}\sum_{t=T+1}^{T+H}\hat{v}_{ij,t}$ is the sample mean of $\hat{v}_{ij,t}$, and

$$\hat{\sigma}_{H,ij} = \sqrt{\frac{1}{H}\sum_{t=T+1}^{T+H}\hat{v}^2_{ij,t}}.$$

Tables 399 and 400 report on the inclusion frequencies of individual variables selected from the vector $\mathbf{x}_t$ for the Lasso and OCMT methods, respectively.

Table 397: RMSFE performance of the AR, factor-augmented AR, Lasso, adaptive Lasso, and OCMT methods

Evaluation sample:	Full 1990Q3-2008Q4		Pre-crisis 1990Q3-2007Q2	
	RMSFE (×100)	Relative RMSFE	RMSFE (×100)	Relative RMSFE
	Real output growth			
(a) $AR(1)$ benchmark	0.560	1.000	0.504	1.000
(b) Factor-augmented $AR(1)$	0.488	0.870	0.467	0.927
(c) Lasso	0.507	0.905	0.463	0.918
(d) Adaptive Lasso	0.576	1.028	0.515	1.021
(e) OCMT, $p = 0.01$	0.487	0.869	0.464	0.920
(f) OCMT, $p = 0.05$	0.480	0.856	0.448	0.890
(g) OCMT, $p = 0.1$	0.493	0.879	0.466	0.925
	Inflation			
(a) $AR(1)$ benchmark	0.655	1.000	0.469	1.000
(b) Factor-augmented $AR(1)$	0.621	0.949	0.452	0.965
(c) Lasso	0.655	1.001	0.488	1.040
(d) Adaptive Lasso	0.715	1.093	0.518	1.105
(e) OCMT, $p = 0.01$	0.626	0.957	0.477	1.017
(f) OCMT, $p = 0.05$	0.647	0.989	0.505	1.077
(g) OCMT, $p = 0.1$	0.644	0.984	0.501	1.068

Notes: RMSFE is computed using a rolling forecasting scheme with a rolling window of 120 observations. We use the smaller dataset considered in Stock and Watson (2012) which contains 109 series. The series are transformed by taking logarithms and/or differencing following Stock and Watson (2012). The transformed series span 1960Q3 to 2008Q4 and are collected in the vector $\boldsymbol{z}_t$. Set of regressors in Lasso and adaptive-Lasso contains y_{t-1} (lagged target variable), $\boldsymbol{z}_{t-1}$, and a lagged set of principal components obtained from the large dataset given by $(y_t, \boldsymbol{z}_t')'$. OCMT procedure is applied to regressions of y_t conditional on lagged principal components, with y_{t-1}, and elements of $\boldsymbol{z}_{t-1}$ considered one at a time. OCMT is reported for $\delta = 1$ in the first stage, and $\delta^* = 2$ in the subsequent stages of the OCMT procedure, and three choices of p, similarly to the MC section. The number of principal components in the factor-augmented $AR(1)$, Lasso, adaptive Lasso, and OCMT methods is determined in a rolling scheme by using criterion PC_{p_1} of Bai and Ng (2002) (with the maximum number of PCs set to 5). See Subsection 7.1 for further details.

Table 398: DM statistics for the forecasting performance of the AR, factor-augmented AR, Lasso, adaptive Lasso, and OCMT methods

	DM_{ij} test statistics													
	Full evaluation sample: 1990Q3-2008Q4													
	Real output growth							**Inflation**						
Method pair i (below), j (on right)	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(a)	(b)	(c)	(d)	(e)	(f)	(g)
(a) AR(1)	.	1.54	2.07	-0.83	1.72	1.78	1.38	.	0.94	-0.02	-2.26	0.67	0.18	0.27
(b) Factor-augmented $AR(1)$	-1.54	.	-0.57	-1.57	0.03	0.51	-0.28	-0.94	.	-1.49	-1.67	-0.50	-2.04	-1.67
(c) Lasso	-2.07	0.57	.	-2.01	0.68	0.90	0.44	0.02	1.49	.	-1.57	1.07	0.33	0.50
(d) Adaptive Lasso	0.83	1.57	2.01	.	1.67	1.78	1.44	2.26	1.67	1.57	.	1.44	1.18	1.24
(e) OCMT, $p = 0.01$	-1.72	-0.03	-0.68	-1.67	.	0.64	-0.32	-0.67	0.50	-1.07	-1.44	.	-2.53	-1.84
(f) OCMT, $p = 0.05$	-1.78	-0.51	-0.90	-1.78	-0.64	.	-1.15	-0.18	2.04	-0.33	-1.18	2.53	.	0.71
(g) OCMT, $p = 0.05$	-1.38	0.28	-0.44	-1.44	0.32	1.15	.	-0.27	1.67	-0.50	-1.24	1.84	-0.71	.
	Pre-Crisis evaluation sample: 1990Q3-2007Q2													
(a) AR(1)	.	0.99	1.74	-0.60	1.13	1.45	0.98	.	0.79	-0.95	-1.77	-0.33	-1.45	-1.34
(b) Factor-augmented $AR(1)$	-0.99	.	0.15	-1.17	0.19	1.19	0.05	-0.79	.	-1.38	-1.66	-2.01	-3.05	-2.64
(c) Lasso	-1.74	-0.15	.	-1.77	-0.03	0.51	-0.13	0.95	1.38	.	-1.36	0.46	-0.82	-0.67
(d) Adaptive Lasso	0.60	1.17	1.77	.	1.23	1.56	1.16	1.77	1.66	1.36	.	1.06	0.37	0.49
(e) OCMT, $p = 0.01$	-1.13	-0.19	0.03	-1.23	.	1.29	-0.16	0.33	2.01	-0.46	-1.06	.	-2.75	-1.98
(f) OCMT, $p = 0.05$	-1.45	-1.19	-0.51	-1.56	-1.29	.	-1.84	1.45	3.05	0.82	-0.37	2.75	.	0.64
(g) OCMT, $p = 0.05$	-0.98	-0.05	0.13	-1.16	0.16	1.84	.	1.34	2.64	0.67	-0.49	1.98	-0.64	.

Notes: This table reports results for DM_{ij} statistics defined in (4). See also notes to Table 397.

Table 399: Top 10 inclusion frequencies of variables selected by the Lasso method

Output growth	
Real gross private domestic investment - residential, quantity index	100.0%
Real personal consumption expenditures - services, quantity index	100.0%
Employees, nonfarm - mining	91.9%
Index of help - wanted advertising in newspapers, sa	75.7%
Employment: Ratio; Help-wanted ads: No. unemployed CLF	56.8%
Residential price index	55.4%
Industrial production index - fuels	39.2%
Equipment and software price index	39.2%
Recreation price index	36.5%
Housing authorized: Total new priv. housing units, saar	32.4%
Inflation	
Interest rate: U.S.Treasury bills, sec. mkt, 3-mo (% per ann, nsa)	100.0%
Real personal consumption expenditures - services, quantity index	100.0%
Lagged dependent variable	100.0%
Recreation price index	98.6%
Employees, nonfarm - mining	93.2%
Real compensation per hour, employees: nonfarm business, sa	93.2%
Real avg. hourly earnings, prod. workers, nonfarm - construction	89.2%
Motor vehicles and parts price index	89.2%
New orders (net) - consumer goods materials, 1996 dollars (bci)	86.5%
Transportation price index	77.0%

Notes: This table reports top 10 inclusion frequencies of the variables selected from the vector $\mathbf{x}_t = (\mathbf{z}_t, y_t)'$ using the Lasso method on the full evaluation sample, 1990Q3-2008Q4. The inclusion frequency is nonzero in the case of 31 variables when forecasting output growth with Lasso, and in the case of 52 variables when forecasting inflation with Lasso.

Table 400: Inclusion frequencies of variables selected by the OCMT method

Output growth			
	$p = 0.1$	$p = 0.05$	$p = 0.01$
Lagged dependent variable	64.9%	44.6%	20.3%
Output per hour all persons: Business SEC (1982=100, sa)	62.2%	41.9%	16.2%
Residential price index	55.4%	54.1%	25.7%
Industrial production index - fuels	43.2%	40.5%	37.8%
Employees, nonfarm - mining	32.4%	28.4%	16.2%
Real personal consumption expenditures - services, quantity index (2000=100)	25.7%	20.3%	4.1%
Real gross private domestic investment - residential, quantity index (2000=100)	9.5%	1.4%	1.4%
Unit labor cost: Nonfarm Business sec (1982=100, sa)	5.4%	-	-

Inflation			
	$p = 0.1$	$p = 0.05$	$p = 0.01$
Lagged dependent variable	100.0%	100.0%	100.0%
MZM (sa) FRB St. Louis	74.3%	71.6%	13.5%
Money stock: M2	68.9%	48.6%	27.0%
Recreation price index	58.1%	40.5%	9.5%
Real imports, quantity index (2000=100, saar)	41.9%	8.1%	-
Gasoline, fuel oil, and other energy goods price index	25.7%	18.9%	13.5%
Real avg. hourly earnings, prod. workers, nonfarm - construction	21.6%	17.6%	4.1%
Motor vehicles and parts price index	13.5%	9.5%	-
Real government consumption expenditures	10.8%	8.1%	-
S&P's composite common stock: Dividend yield	9.5%	6.8%	6.8%
S&P's common stock price index: Industrials	6.8%	6.8%	-
S&P's common stock price index: Composite	6.8%	6.8%	6.8%
Real avg. hourly earnings, prod. workers, nonfarm - mfg.	6.8%	1.4%	-
Common stock preices: DOW Jones industrial average	5.4%	4.1%	-
Employees, nonfarm - Mining	2.7%	-	-
NAPM Inventories Index	1.4%	-	-

Notes: This table reports inclusion frequencies of the variables selected from the vector $\mathbf{x}_t = (\mathbf{z}_t, y_t)'$ using OCMT procedure with $(\delta, \delta^*) = (1, 2)$ on the full evaluation sample, 1990Q3-2008Q4.

References

Bai, J. and S. Ng (2002). Determining the number of factors in approximate factor models. *Econometrica 70*, 191–221.

Buhlmann, P. (2006). Boosting for high-dimensional linear models. *The Annals of Statistics 34* (2), 599–583.

Buhlmann, P. and S. van de Geer (2011). *Statistics for High-Dimensional Data: Methods, Theory and Applications*. Springer.

Chudik, A., G. Kapetanios, and M. H. Pesaran (2016). A one-covariate at a time, multiple testing approach to variable selection in high-dimensional linear regression models. Mimeo.

Lv, J. and Y. Fan (2009). A unified approach to model selection and sparse recovery using regularized least squares. *Annals of Statistics 37*, 3498–3528.

Stock, J. H. and M. W. Watson (2012). Generalized shrinkage methods for forecasting using many predictors. *Journal of Business and Economic Statistics 30*, 481–493.

Tibshirani, R. (1996). Regression shrinkage and selection via the lasso. *Journal of the Royal Statistical Society B 58*, 267–288.

Zheng, Z., Y. Fan, and J. Lv (2014). High dimensional thresholded regression and shrinkage effect. *Journal of the Royal Statistical Society B 76*, 627–649.