

Table 1

Mean (standard deviation) of MSE for  $\sigma = 0.1$ .

Case	k	n	SPCR	aSPCR
1(a)	1	50	0.16 (0.54)	0.11 (0.12)
		200	0.14 (0.72)	0.03 (0.03)
	10	50	0.11 (0.12)	0.11 (0.12)
		200	0.08 (0.51)	0.03 (0.03)
	1	50	1.19 (1.34)	1.18 (1.34)
		200	0.33 (0.44)	0.33 (0.44)
1(b)	10	50	1.18 (1.35)	1.91 (7.39)
		200	0.33 (0.43)	0.33 (0.44)
	2	50	0.35 (0.49)	0.35 (0.49)
		200	0.14 (0.17)	0.14 (0.17)
	10	50	0.35 (0.49)	0.35 (0.49)
		200	0.13 (0.17)	0.13 (0.17)
3(a)	1	50	467 (99)	464 (104)
		200	477 (22)	460 (82)
	10	50	11 (13)	11 (13)
		200	2.57 (3.88)	2.58 (3.88)
3(b)	1	50	13 (0.69)	13 (0.69)
		200	13 (0.60)	13 (0.60)
	10	50	0.23 (0.29)	0.23 (0.29)
		200	0.06 (0.06)	0.07 (0.06)

Table 2

Mean (standard deviation) of MSE for  $\sigma = 1$ .

Case	k	n	SPCR	aSPCR
1(a)	1	50	1.08 (1.78)	0.45 (1.08)
		200	2.39 (2.48)	0.06 (0.05)
		50	0.36 (0.55)	0.22 (0.19)
	10	50	0.36 (0.55)	0.22 (0.19)
		200	0.51 (1.42)	0.11 (0.50)
		50	1.49 (1.48)	1.38 (1.48)
1(b)	1	50	1.49 (1.48)	1.38 (1.48)
		200	0.39 (0.45)	0.36 (0.45)
		50	2.09 (7.47)	1.29 (1.47)
	10	50	2.09 (7.47)	1.29 (1.47)
		200	0.36 (0.45)	0.35 (0.45)
		50	0.89 (0.57)	0.59 (0.53)
2	1	50	0.89 (0.57)	0.59 (0.53)
		200	0.24 (0.19)	0.18 (0.19)
		50	0.88 (0.57)	0.59 (0.54)
	10	50	0.88 (0.57)	0.59 (0.54)
		200	0.23 (0.19)	0.18 (0.19)
		50	467 (99)	464 (104)
3(a)	1	50	467 (99)	464 (104)
		200	477 (22)	460 (82)
		50	11 (13)	11 (13)
	10	50	11 (13)	11 (13)
		200	2.65 (3.83)	2.59 (3.83)
		50	13 (0.71)	13 (0.71)
3(b)	1	50	13 (0.71)	13 (0.71)
		200	13 (0.60)	13 (0.60)
		50	0.79 (0.43)	0.41 (0.34)
	10	50	0.79 (0.43)	0.41 (0.34)
		200	0.16 (0.09)	0.11 (0.08)
		200	0.16 (0.09)	0.11 (0.08)

Table 3

Mean (standard deviation) of TPR and TNP for  $\sigma = 0.1$ .

Case	k	n	TPR		TNR	
			SPCR	aSPCR	SPCR	aSPCR
1(a)	1	50	1 (0.1)	1 (0)	0.67 (0.21)	1 (0)
		200	0.98 (0.14)	1 (0)	0.86 (0.16)	1 (0)
	10	50	1 (0)	1 (0)	0.54 (0.24)	0.75 (0.35)
		200	0.99 (0.1)	1 (0)	0.66 (0.25)	0.51 (0.26)
	1	50	1 (0)	1 (0)	0.07 (0.13)	1 (0)
		200	1 (0)	1 (0)	0.05 (0.08)	1 (0)
1(b)	10	50	1 (0)	0.99 (0.05)	0.61 (0.27)	0.84 (0.32)
		200	1 (0)	1 (0)	0.77 (0.2)	0.76 (0.31)
	2	50	1 (0)	1 (0)	0.26 (0.11)	1 (0)
		200	1 (0)	1 (0)	0.36 (0.13)	1 (0)
	10	50	1 (0)	1 (0)	0.32 (0.14)	0.68 (0.11)
		200	1 (0)	1 (0)	0.43 (0.2)	0.77 (0.09)
3(a)	1	50	0.02 (0.09)	0.02 (0.09)	1 (0)	1 (0)
		200	1 (0)	0.003 (0.016)	1 (0)	1 (0)
	10	50	1 (0)	1 (0)	0.52 (0.14)	0.9 (0.15)
		200	1 (0)	1 (0)	0.68 (0.14)	0.86 (0.11)
	1	50	1 (0)	1 (0)	1 (0)	1 (0)
		200	1 (0)	1 (0)	1 (0)	1 (0)
3(b)	10	50	1 (0)	1 (0)	0.44 (0.12)	0.85 (0.12)
		200	1 (0)	1 (0)	0.57 (0.17)	0.91 (0.08)

Table 4

Mean (standard deviation) of TPR and TNP for sigma = 1.

Case	k	n	TPR		TNR	
			SPCR	aSPCR	SPCR	aSPCR
1(a)	1	50	0.84 (0.36)	0.95 (0.21)	0.37 (0.31)	0.91 (0.14)
		200	0.53 (0.5)	1 (0)	0.66 (0.34)	0.94 (0.13)
	10	50	0.99 (0.1)	1 (0)	0.275 (0.2)	0.88 (0.22)
		200	0.91 (0.28)	0.99 (0.1)	0.45 (0.26)	0.9 (0.21)
	1(b)	50	1 (0)	1 (0)	0.008 (0.03)	0.56 (0.19)
		200	1 (0)	1 (0)	0.006 (0.03)	0.78 (0.16)
2	10	50	0.99 (0.05)	1 (0)	0.55 (0.26)	0.93 (0.18)
		200	1 (0)	1 (0)	0.64 (0.25)	0.92 (0.25)
	1	50	1 (0)	1 (0)	0.18 (0.11)	0.89 (0.13)
		200	1 (0)	1 (0)	0.21 (0.13)	0.94 (0.1)
	10	50	1 (0)	1 (0)	0.21 (0.12)	0.88 (0.17)
		200	1 (0)	1 (0)	0.22 (0.15)	0.92 (0.15)
3(a)	1	50	0.02 (0.098)	0.02 (0.09)	0.97 (0.13)	1 (0)
		200	1 (0)	0.003 (0.016)	1 (0)	1 (0)
	10	50	1 (0)	1 (0)	0.24 (0.05)	0.96 (0.09)
		200	1 (0)	1 (0)	0.3 (0.071)	0.95 (0.12)
	3(b)	50	1 (0)	1 (0)	1 (0)	1 (0)
		200	1 (0)	1 (0)	1 (0)	1 (0)
3(b)	10	50	1 (0)	1 (0)	1 (0.07)	0.97 (0.06)
		200	1 (0)	1 (0)	0.35 (0.1)	0.96 (0.1)

Table 6

Mean (standard deviation) of MSE for real datasets.

	Energy1	Energy2	Forest	Concrete	Communities1	Communities2
SPCR	9.4e+0	1.1e+1	3.9e+3	1.2e+2	2.4e-2	2.3e-2
	(6.4e-1)	(5.5e-1)	(1.2e+3)	(1.6e+1)	(4.2e-3)	(6.1e-3)
aSPCR	1.1e+1	1.1e+1	3.9e+3	1.2e+2	3.2e-2	3.5e-2
	(5.5e-1)	(5.4e+1)	(1.1e+3)	(1.2e+1)	(1.0e-2)	(1.1e-2)