

Supplementary Materials

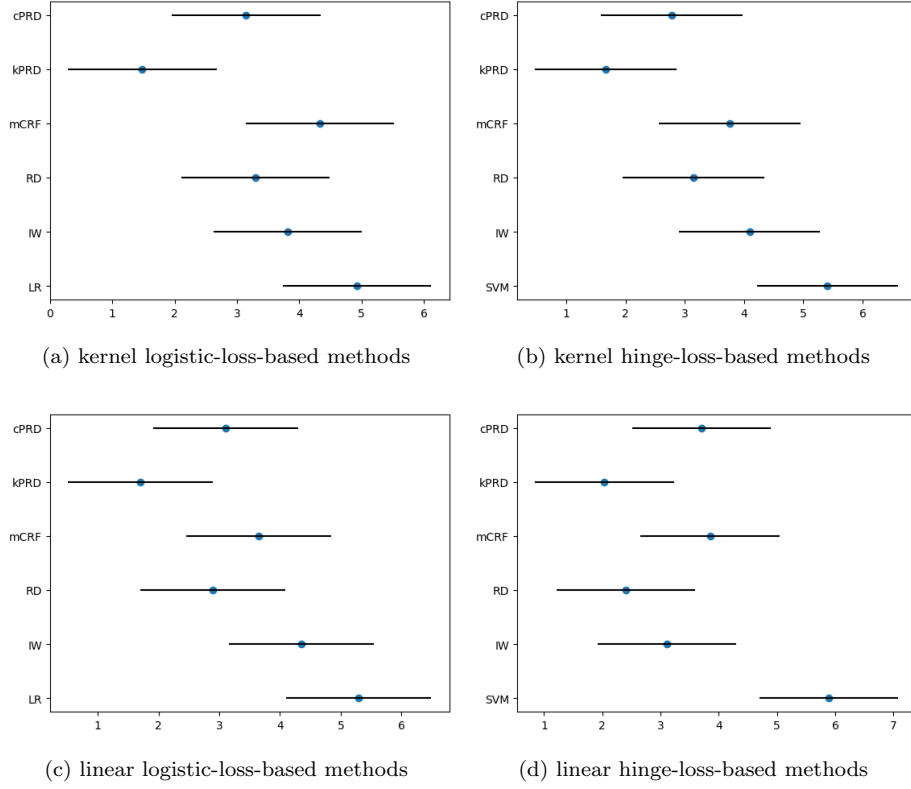


Figure 1: Test results on four surrogate loss functions(kernel width = 2^0)

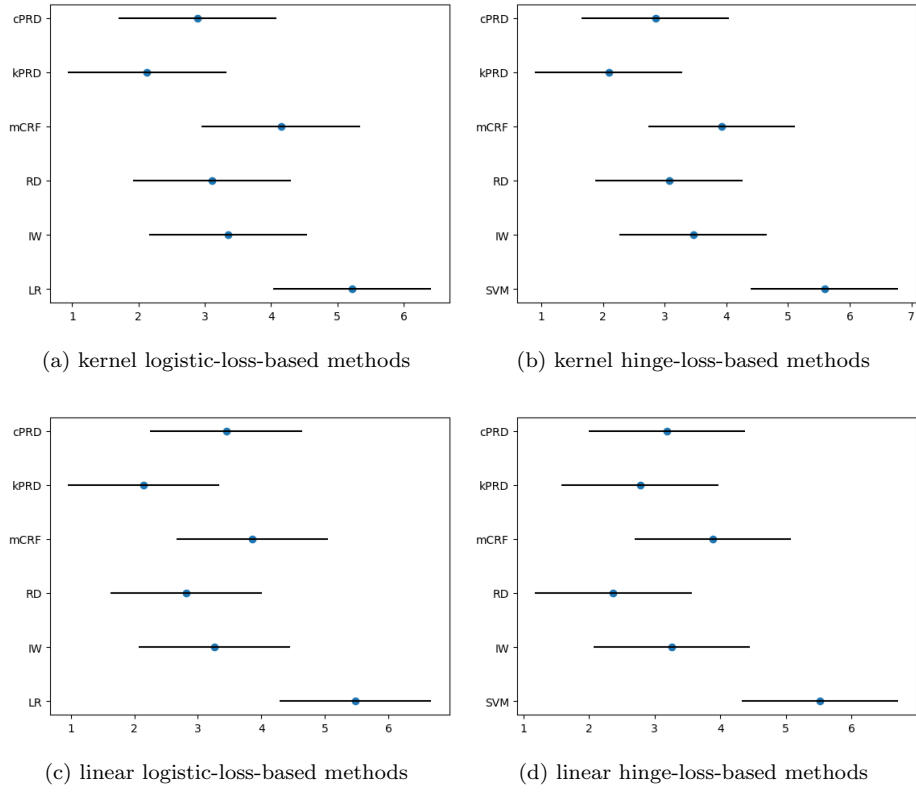


Figure 2: Test results on four surrogate loss functions(kernel width = 2^1)

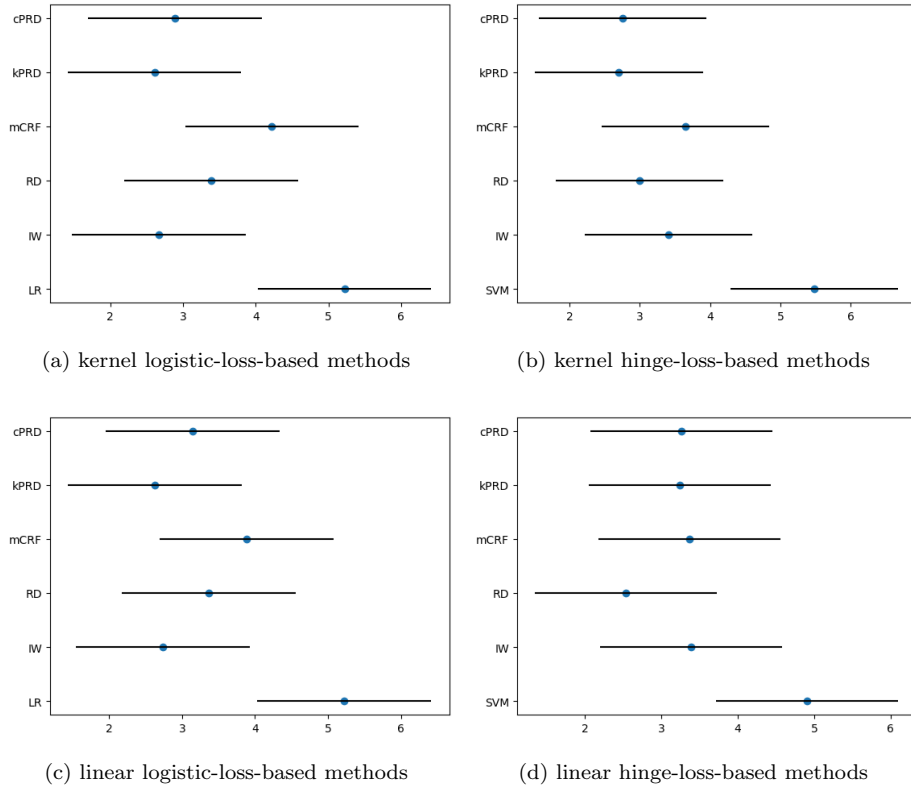


Figure 3: Test results on four surrogate loss functions(kernel width = 2^2)

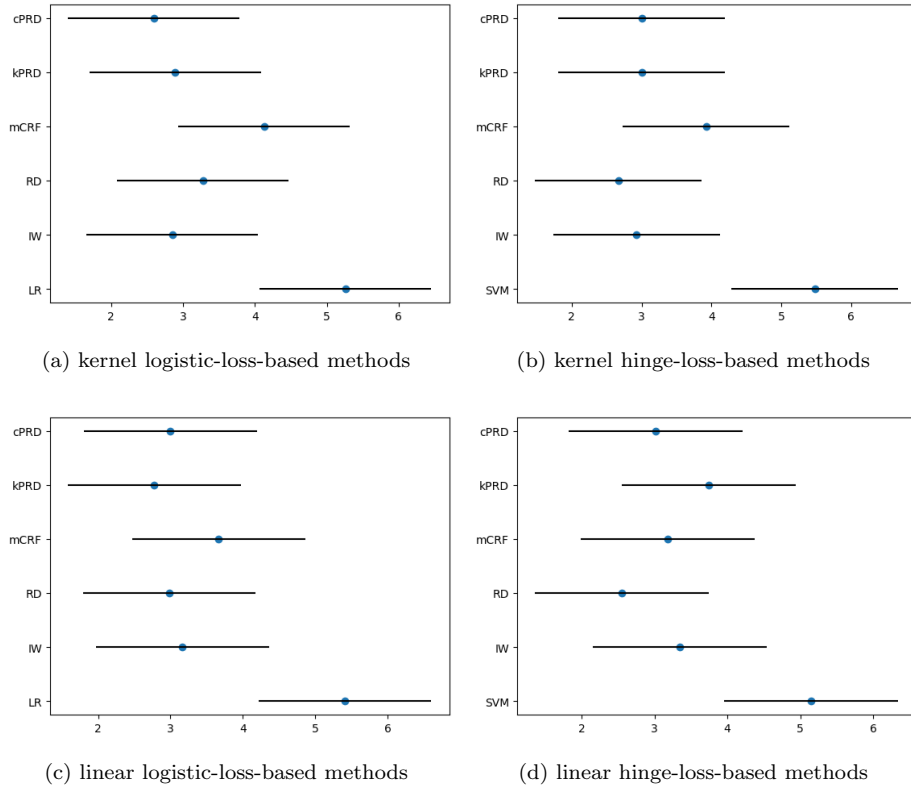


Figure 4: Test results on four surrogate loss functions(kernel width = 2^3)

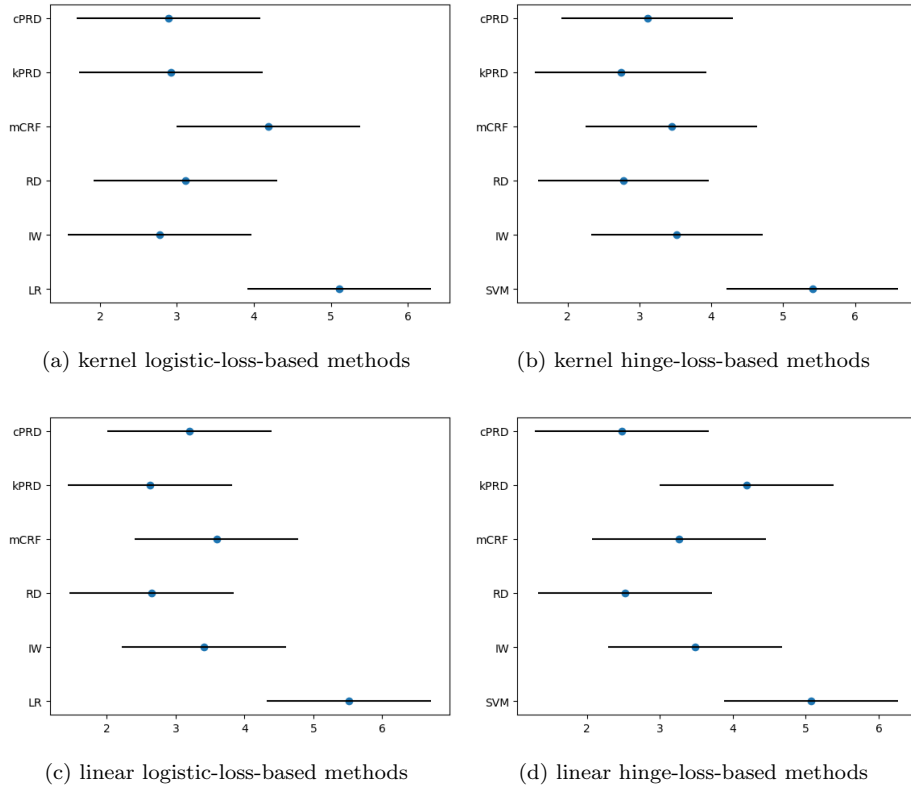


Figure 5: Test results on four surrogate loss functions(kernel width = 2^4)

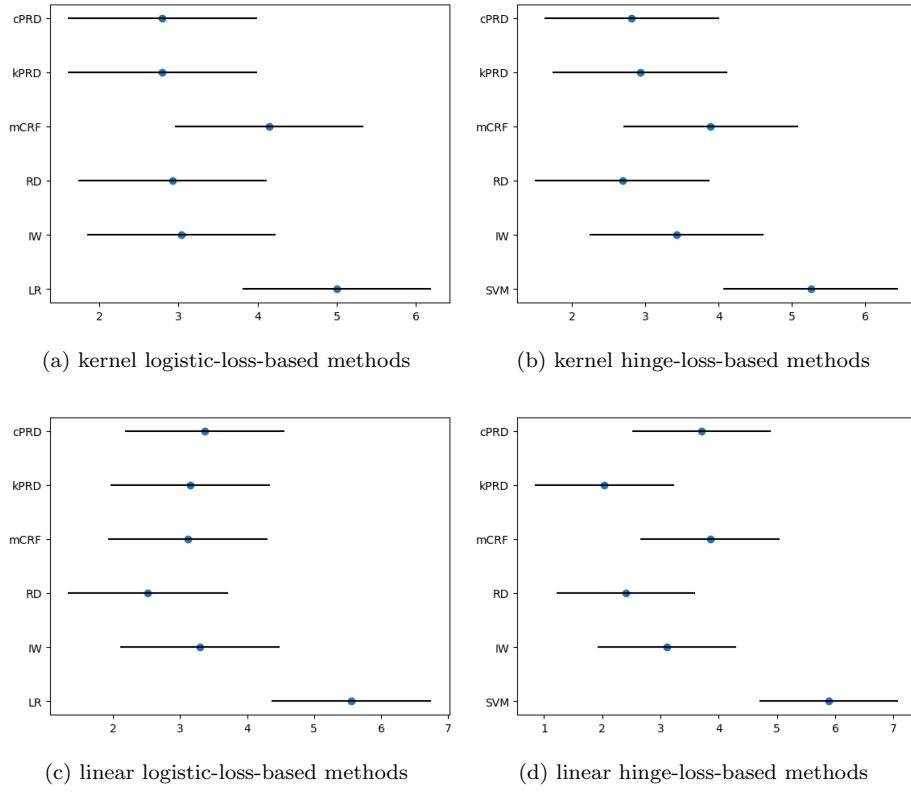


Figure 6: Test results on four surrogate loss functions(kernel width = 2^5)

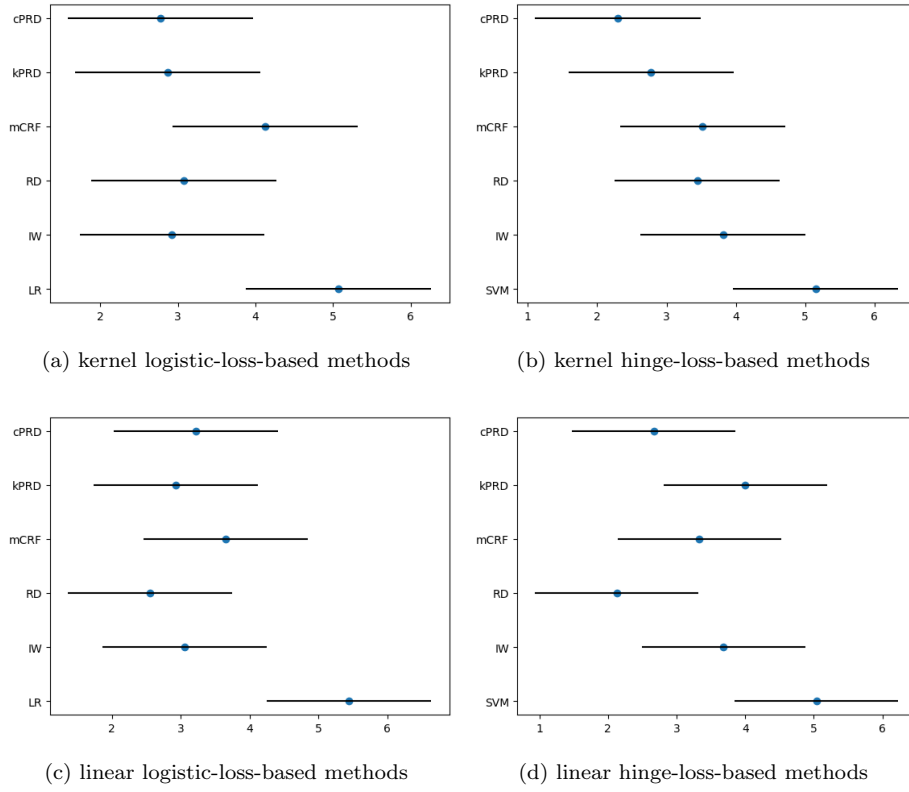


Figure 7: Test results on four surrogate loss functions(kernel width = 2^6)

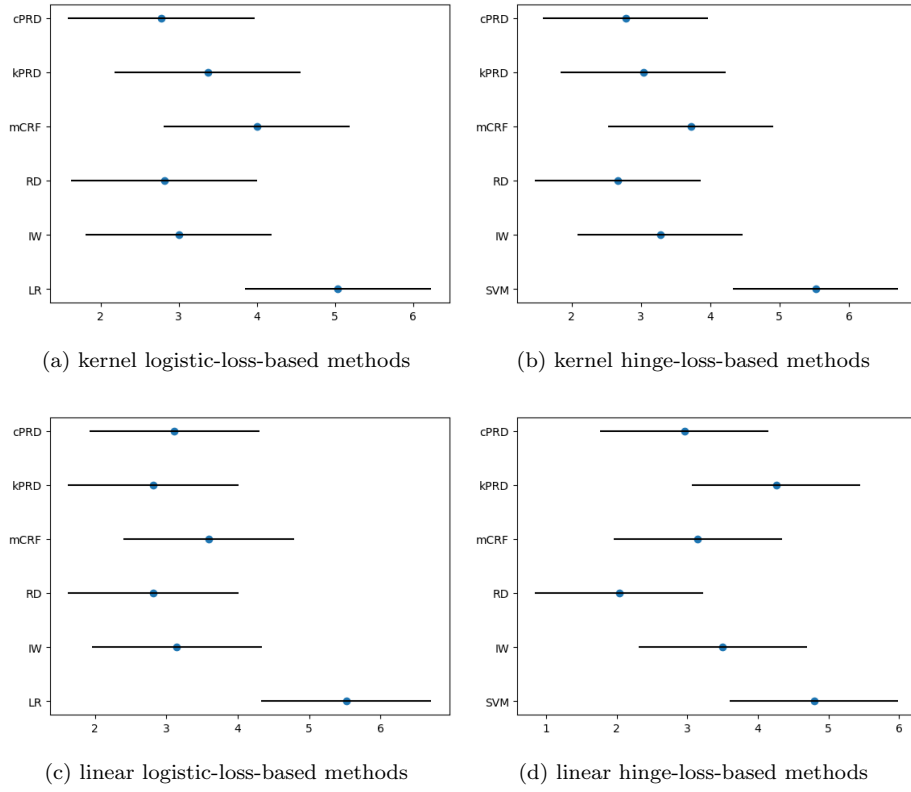


Figure 8: Test results on four surrogate loss functions(kernel width = 2^7)

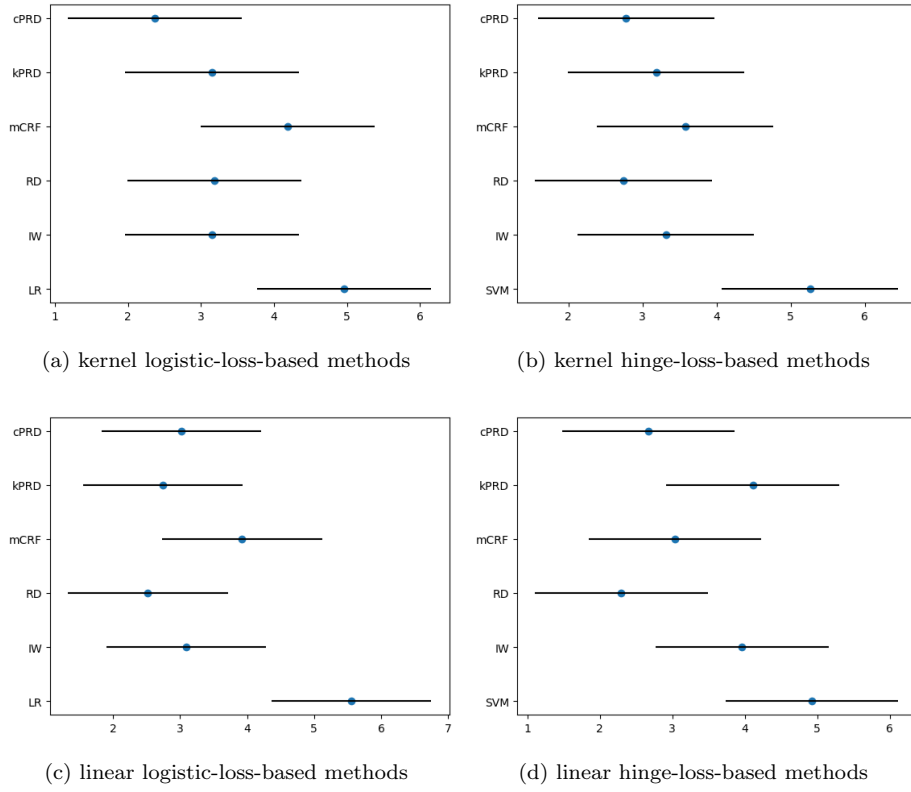


Figure 9: Test results on four surrogate loss functions(kernel width = 2^8)

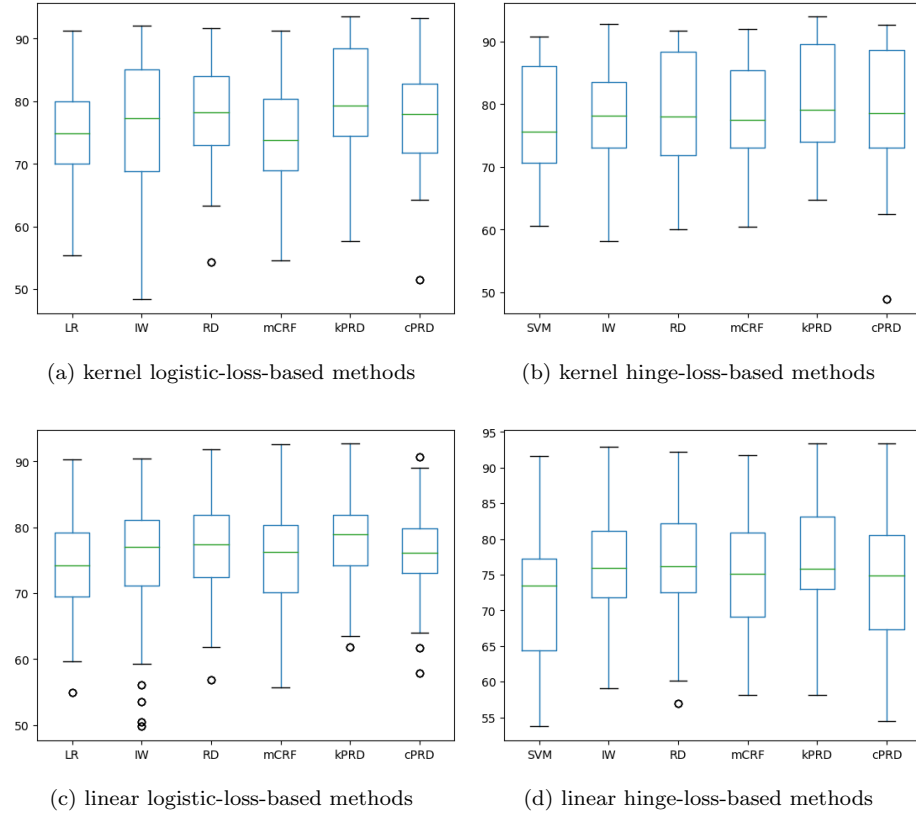


Figure 10: Box plot results on four surrogate loss functions(kernel width = 2^0)

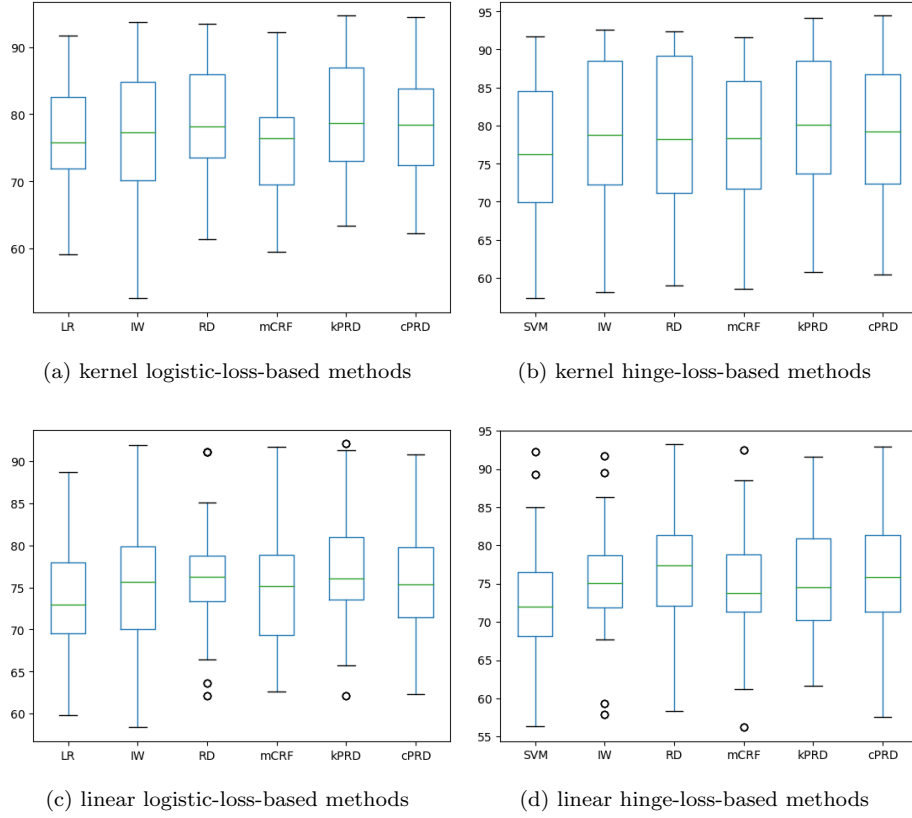


Figure 11: Box plot results on four surrogate loss functions(kernel width = 2^1)

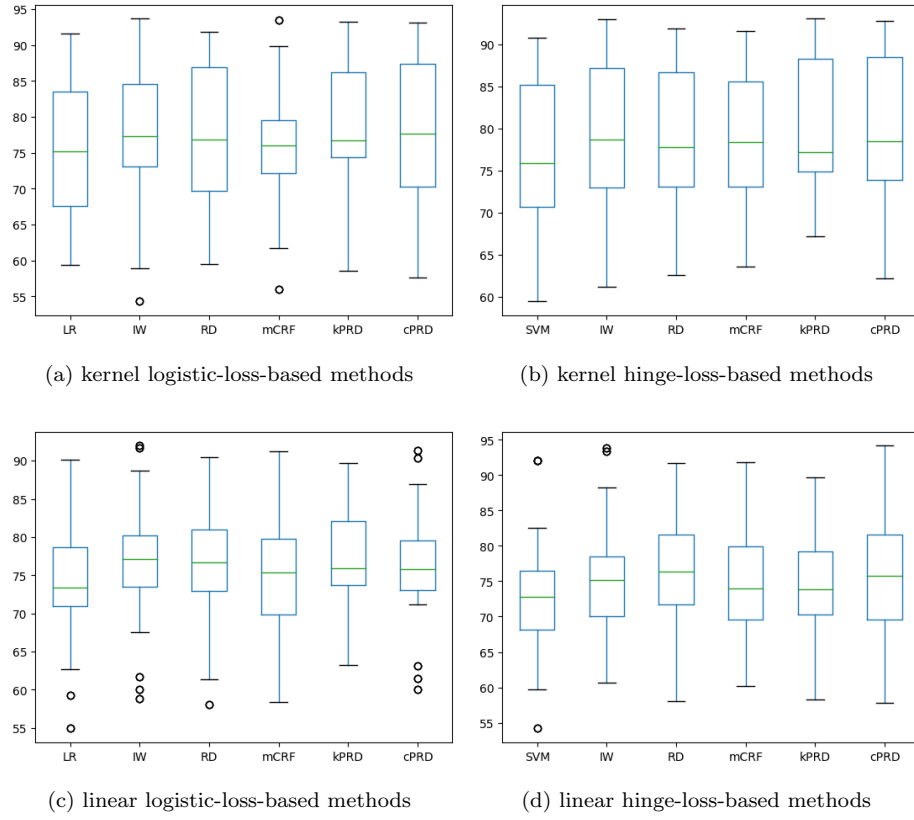


Figure 12: Box plot results on four surrogate loss functions(kernel width = 2^2)

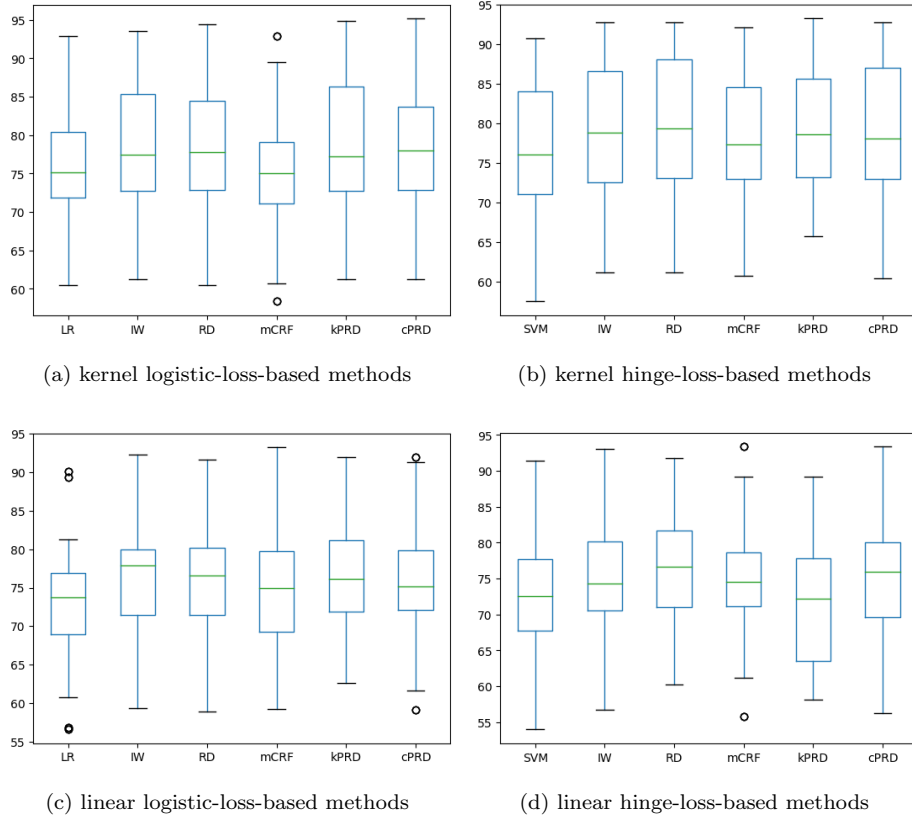


Figure 13: Box plot results on four surrogate loss functions(kernel width = 2^3)

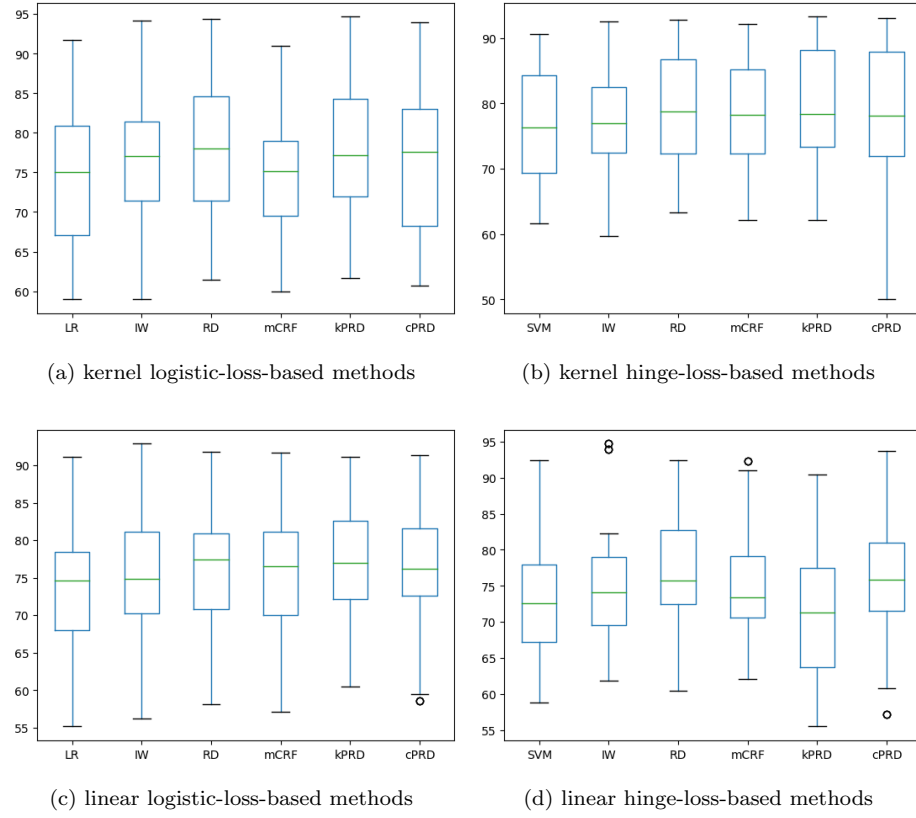


Figure 14: Box plot results on four surrogate loss functions(kernel width = 2^4)

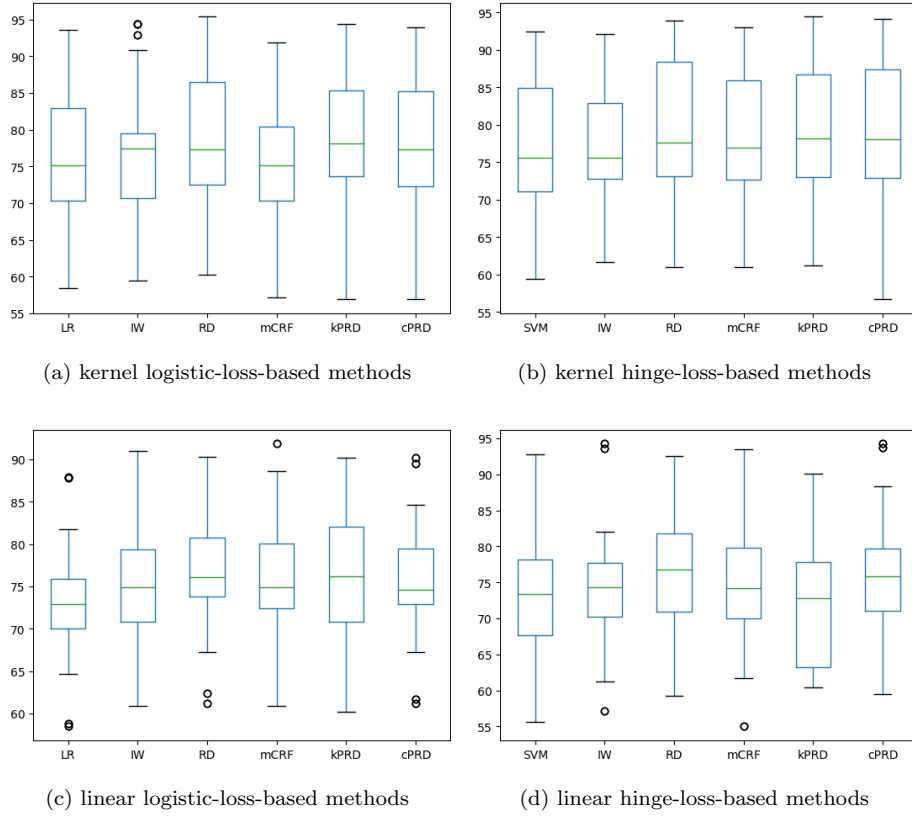


Figure 15: Box plot results on four surrogate loss functions(kernel width = 2^5)

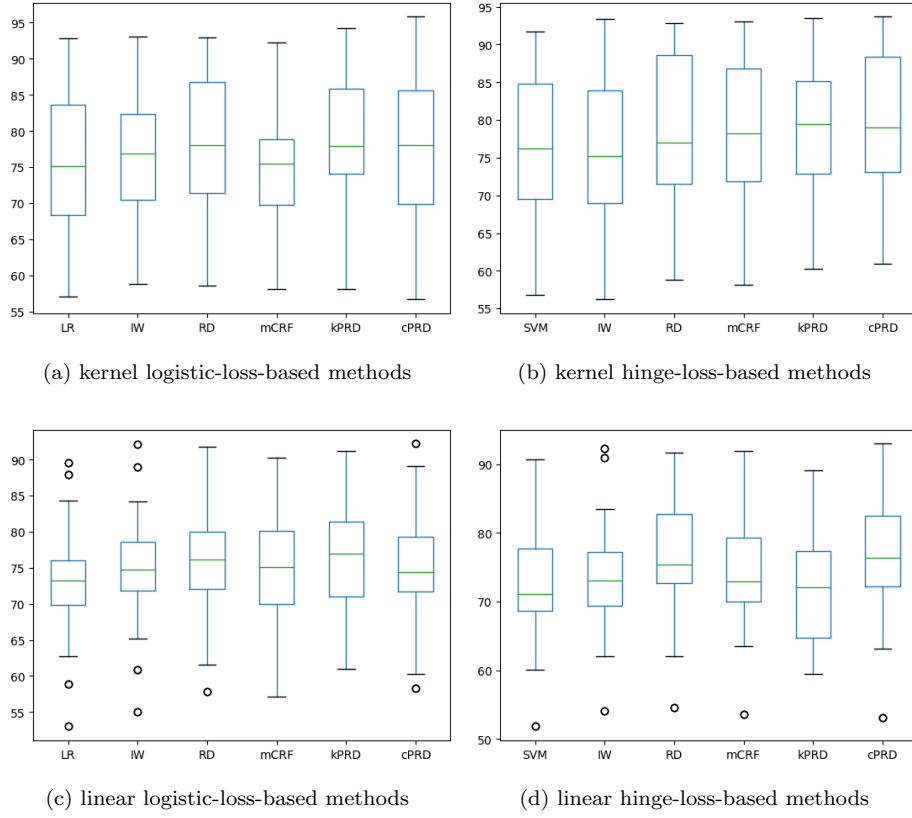


Figure 16: Box plot results on four surrogate loss functions(kernel width = 2^6)

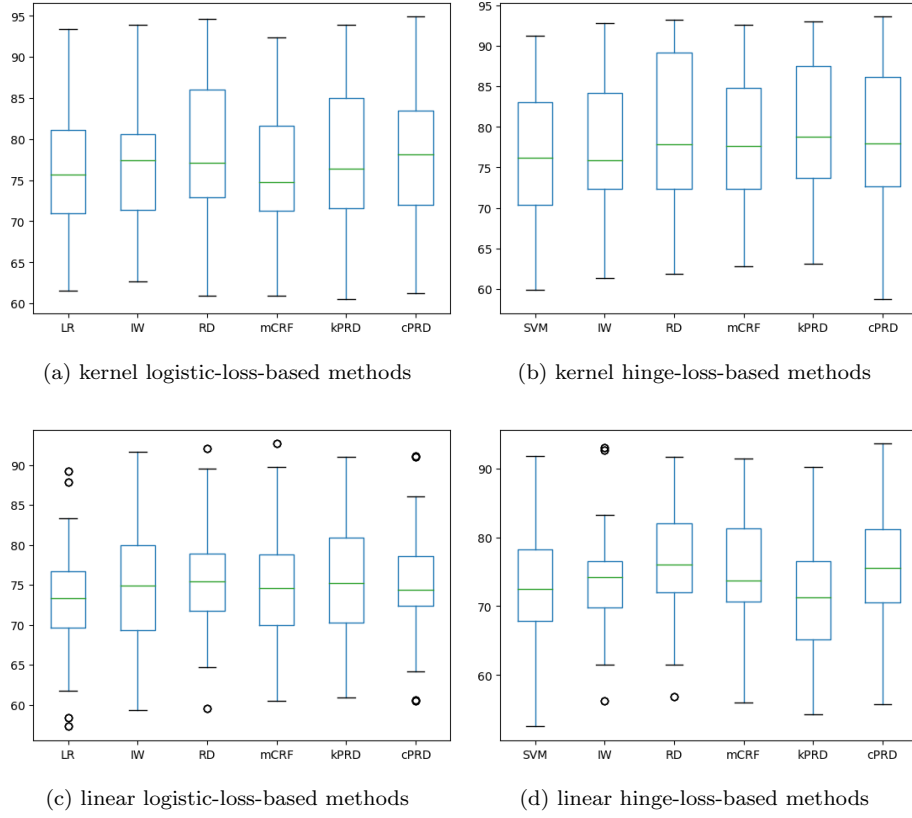


Figure 17: Box plot results on four surrogate loss functions(kernel width = 2^7)

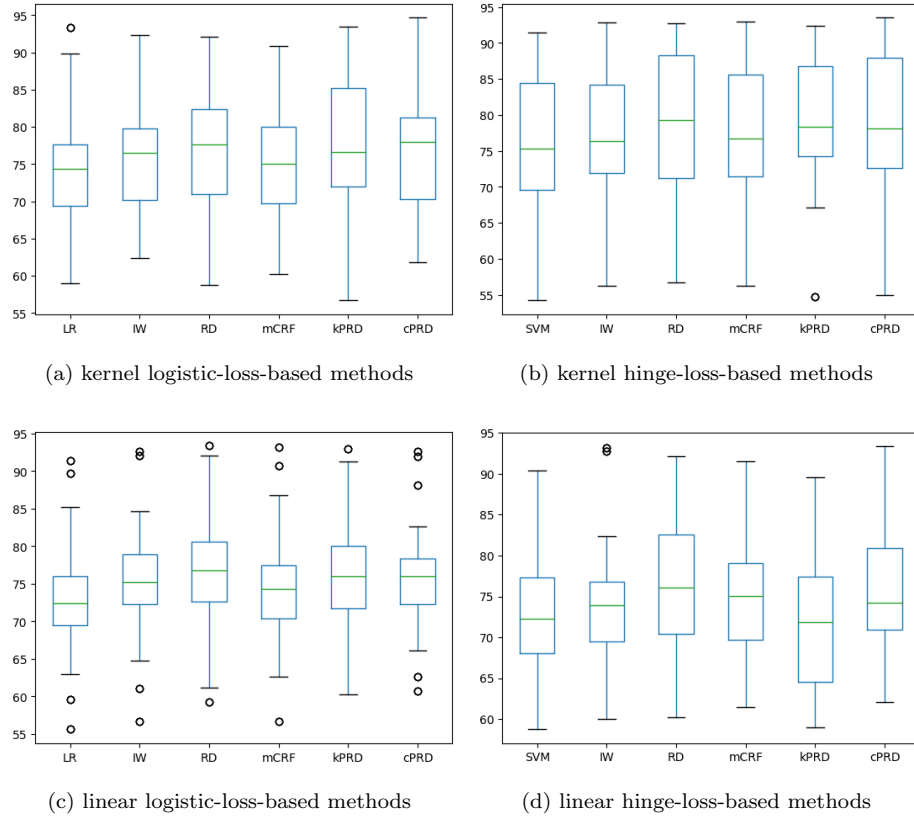


Figure 18: Box plot results on four surrogate loss functions(kernel width = 2^8)

Table 1: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^0)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{Log}	$IW\ell_{Log}$	$RD\ell_{Log}$	$mCRF\ell_{Log}$	$kRPD\ell_{Log}$	$cRPD\ell_{Log}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.44	73.44	72.73	76.62	75.00	73.31
	(0.3, 0.1)	70.92	73.25	72.21	72.21	73.31	74.35
	(0.4, 0.4)	62.55	66.82	64.87	69.16	70.33	63.96
German (20, 300, 700)	(0.2, 0.2)	76.90	80.06	78.50	76.36	79.36	78.96
	(0.3, 0.1)	76.61	79.77	79.25	77.40	79.31	78.79
	(0.4, 0.4)	71.53	75.15	73.76	72.89	77.23	73.18
Heart (13, 120, 150)	(0.2, 0.2)	70.05	69.85	72.95	72.90	73.25	71.75
	(0.3, 0.1)	72.10	65.05	74.05	71.85	74.90	73.70
	(0.4, 0.4)	61.30	66.15	63.30	68.55	68.05	64.20
Image (18, 1188, 898)	(0.2, 0.2)	79.85	83.15	83.70	82.41	83.70	82.22
	(0.3, 0.1)	76.70	82.04	79.63	76.85	83.52	79.26
	(0.4, 0.4)	65.41	69.44	69.63	67.78	74.45	71.11
Thyroid (5, 65, 150)	(0.2, 0.2)	87.43	87.10	89.02	80.79	89.67	89.36
	(0.3, 0.1)	84.58	85.02	88.33	68.90	88.47	86.89
	(0.4, 0.4)	74.63	69.76	78.23	73.78	79.64	76.20
Votes (5, 168, 267)	(0.2, 0.2)	67.05	68.81	68.34	66.43	70.24	66.67
	(0.3, 0.1)	66.34	71.67	65.00	66.91	72.14	68.34
	(0.4, 0.4)	55.38	48.33	54.29	54.53	57.62	51.43
Sonar (60, 97, 111)	(0.2, 0.2)	74.65	57.90	76.65	73.20	79.85	77.45
	(0.3, 0.1)	71.65	48.40	73.60	70.00	74.90	74.55
	(0.4, 0.4)	63.25	55.20	66.15	60.10	66.55	66.70
Fourclass (2, 307, 555)	(0.2, 0.2)	77.53	77.32	78.95	80.39	78.44	79.69
	(0.3, 0.1)	74.89	78.10	76.15	76.38	77.43	77.90
	(0.4, 0.4)	71.70	73.74	74.12	75.06	74.44	71.94
Svmguide3 (22, 337, 947)	(0.2, 0.2)	91.26	89.77	90.47	82.56	93.02	93.26
	(0.3, 0.1)	89.16	90.70	88.14	79.30	93.49	92.33
	(0.4, 0.4)	75.91	78.14	82.09	71.86	84.89	77.91
Splice (60, 617, 483)	(0.2, 0.2)	88.69	90.11	90.46	91.15	90.58	90.35
	(0.3, 0.1)	89.15	92.07	91.72	91.26	92.41	92.64
	(0.4, 0.4)	79.96	87.36	84.02	84.26	89.20	82.76
Average		74.62	74.45	76.68	74.39	78.85	76.70

Table 2: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^0)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.00	74.68	74.68	75.65	75.20	75.13
	(0.3, 0.1)	68.78	73.90	70.39	70.45	73.83	72.08
	(0.4, 0.4)	65.08	66.17	67.40	68.31	70.26	66.62
German (20, 300, 700)	(0.2, 0.2)	84.76	82.60	90.75	85.43	84.28	87.80
	(0.3, 0.1)	79.21	83.58	86.82	80.87	81.56	82.31
	(0.4, 0.4)	71.58	74.68	76.30	73.06	75.43	73.76
Heart (13, 120, 150)	(0.2, 0.2)	71.90	72.05	73.10	73.80	74.05	73.45
	(0.3, 0.1)	70.10	73.00	71.80	70.85	74.70	73.00
	(0.4, 0.4)	62.65	58.15	65.25	67.20	68.40	68.05
Image (18, 1188, 898)	(0.2, 0.2)	76.52	78.15	80.00	79.45	80.56	78.52
	(0.3, 0.1)	74.11	78.33	77.96	74.44	79.08	78.15
	(0.4, 0.4)	63.93	60.93	65.56	66.30	69.26	62.41
Thyroid (5, 65, 150)	(0.2, 0.2)	88.65	89.98	90.43	90.43	90.74	90.46
	(0.3, 0.1)	87.59	89.59	90.22	89.23	90.14	89.98
	(0.4, 0.4)	80.51	78.92	82.63	81.10	83.37	82.97
Votes (5, 168, 267)	(0.2, 0.2)	73.71	73.33	74.29	75.24	76.43	76.91
	(0.3, 0.1)	66.33	74.05	66.43	65.00	72.38	69.05
	(0.4, 0.4)	60.62	60.24	60.00	60.48	66.43	48.81
Sonar (60, 97, 111)	(0.2, 0.2)	79.15	79.95	81.20	81.00	83.35	81.05
	(0.3, 0.1)	75.45	77.15	77.05	77.50	78.30	77.70
	(0.4, 0.4)	61.50	58.75	62.95	62.90	64.70	63.15
Fourclass (2, 307, 555)	(0.2, 0.2)	75.63	76.66	78.09	77.35	77.74	78.60
	(0.3, 0.1)	71.58	75.06	73.78	73.19	76.85	74.98
	(0.4, 0.4)	70.69	71.67	71.71	73.77	71.24	72.45
Svmguide3 (22, 337, 947)	(0.2, 0.2)	90.09	90.70	90.93	90.70	93.95	92.33
	(0.3, 0.1)	86.14	88.60	87.44	85.58	90.47	89.30
	(0.4, 0.4)	86.37	83.02	88.37	85.12	89.53	88.60
Splice (60, 617, 483)	(0.2, 0.2)	90.76	91.84	91.61	91.95	92.87	92.64
	(0.3, 0.1)	89.15	92.76	91.72	89.77	92.18	90.92
	(0.4, 0.4)	78.23	81.38	81.61	84.94	87.01	79.31
Average		75.79	77.00	78.02	77.37	79.48	77.68

Table 3: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^0)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.30	76.10	76.62	76.88	77.08	75.52
	(0.3, 0.1)	70.53	74.29	71.62	71.56	75.39	74.09
	(0.4, 0.4)	68.00	70.52	69.80	71.95	71.69	68.05
German (20, 300, 700)	(0.2, 0.2)	75.46	77.75	77.80	77.34	79.02	76.99
	(0.3, 0.1)	76.50	77.46	77.51	77.92	79.31	78.44
	(0.4, 0.4)	71.29	74.86	73.81	73.99	75.38	73.87
Heart (13, 120, 150)	(0.2, 0.2)	71.45	71.35	74.90	74.65	74.25	72.75
	(0.3, 0.1)	70.25	72.35	72.95	70.15	74.65	74.55
	(0.4, 0.4)	62.75	59.35	64.75	69.55	67.85	64.00
Image (18, 1188, 898)	(0.2, 0.2)	79.67	79.63	83.89	81.67	81.67	79.82
	(0.3, 0.1)	77.26	81.48	80.93	77.22	80.74	79.63
	(0.4, 0.4)	66.71	71.11	70.93	70.93	72.04	68.70
Thyroid (5, 65, 150)	(0.2, 0.2)	80.25	81.12	82.30	81.32	81.87	82.66
	(0.3, 0.1)	70.73	79.52	78.49	70.17	81.17	75.84
	(0.4, 0.4)	74.10	71.13	76.27	75.45	77.61	76.15
Votes (5, 168, 267)	(0.2, 0.2)	66.09	64.52	67.62	67.62	70.95	73.33
	(0.3, 0.1)	68.95	72.38	71.19	67.14	75.00	73.10
	(0.4, 0.4)	54.91	50.48	56.91	55.71	61.90	57.86
Sonar (60, 97, 111)	(0.2, 0.2)	74.25	56.05	76.60	76.30	77.50	75.75
	(0.3, 0.1)	72.55	53.55	74.30	74.05	76.70	73.25
	(0.4, 0.4)	59.70	49.80	61.80	62.30	63.50	61.70
Fourclass (2, 307, 555)	(0.2, 0.2)	79.17	78.95	80.43	80.35	80.27	81.25
	(0.3, 0.1)	75.82	78.95	77.55	76.93	78.87	76.46
	(0.4, 0.4)	69.56	72.68	72.49	74.28	73.93	70.35
Svmguide3 (22, 337, 947)	(0.2, 0.2)	82.65	81.86	85.58	82.33	84.65	86.28
	(0.3, 0.1)	79.40	81.86	81.86	78.14	82.09	83.03
	(0.4, 0.4)	77.77	76.98	77.44	78.84	82.09	78.37
Splice (60, 617, 483)	(0.2, 0.2)	90.30	90.46	91.84	92.53	91.95	90.69
	(0.3, 0.1)	87.77	90.46	91.49	88.05	92.64	88.97
	(0.4, 0.4)	79.15	88.39	82.76	84.25	89.20	79.54
Average		73.58	73.51	76.08	75.32	77.70	75.80

Table 4: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^0)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.24	76.36	75.84	76.88	76.88	76.30
	(0.3, 0.1)	68.26	75.00	72.40	72.66	75.58	74.09
	(0.4, 0.4)	69.36	70.97	71.23	72.60	71.95	70.26
German (20, 300, 700)	(0.2, 0.2)	72.11	75.84	75.72	75.09	74.91	73.76
	(0.3, 0.1)	62.74	77.57	77.57	65.90	77.75	75.38
	(0.4, 0.4)	68.98	75.49	72.60	74.80	74.51	63.00
Heart (13, 120, 150)	(0.2, 0.2)	70.75	72.95	74.15	73.10	74.05	73.45
	(0.3, 0.1)	69.10	71.85	72.50	71.95	72.95	71.45
	(0.4, 0.4)	61.45	64.20	64.70	65.05	68.65	64.95
Image (18, 1188, 898)	(0.2, 0.2)	79.67	81.11	82.41	80.93	83.15	81.30
	(0.3, 0.1)	74.11	76.67	77.41	74.08	76.85	76.85
	(0.4, 0.4)	60.41	67.04	64.81	64.26	66.67	61.48
Thyroid (5, 65, 150)	(0.2, 0.2)	76.88	81.27	83.11	82.16	82.97	81.77
	(0.3, 0.1)	74.68	81.13	81.60	75.14	83.21	79.14
	(0.4, 0.4)	70.97	74.14	73.95	73.76	73.90	77.80
Votes (5, 168, 267)	(0.2, 0.2)	63.72	64.76	70.00	64.05	64.52	66.43
	(0.3, 0.1)	64.43	67.38	70.00	69.05	71.19	67.38
	(0.4, 0.4)	53.71	59.05	56.90	58.10	58.10	54.52
Sonar (60, 97, 111)	(0.2, 0.2)	73.50	75.95	75.15	75.35	75.80	74.50
	(0.3, 0.1)	70.80	73.35	73.50	72.15	73.75	73.00
	(0.4, 0.4)	58.70	60.80	60.10	60.00	60.95	59.60
Fourclass (2, 307, 555)	(0.2, 0.2)	77.26	77.43	80.12	79.18	77.74	80.51
	(0.3, 0.1)	73.45	75.91	76.85	76.07	79.49	74.86
	(0.4, 0.4)	73.99	75.18	76.19	75.56	74.05	74.63
Svmguide3 (22, 337, 947)	(0.2, 0.2)	80.56	83.26	85.82	83.26	86.05	84.89
	(0.3, 0.1)	81.02	84.42	87.21	83.49	84.19	85.82
	(0.4, 0.4)	75.91	77.91	80.23	77.21	79.77	79.30
Splice (60, 617, 483)	(0.2, 0.2)	91.56	92.87	92.18	91.72	93.33	93.33
	(0.3, 0.1)	88.69	91.84	90.00	89.89	92.64	90.35
	(0.4, 0.4)	78.80	83.56	82.18	87.36	89.20	78.62
Average		71.99	75.51	75.88	74.69	76.49	74.62

Table 5: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2¹)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.38	75.33	73.64	77.01	75.72	73.83
	(0.3, 0.1)	71.18	74.22	72.14	72.34	74.61	74.55
	(0.4, 0.4)	60.21	67.08	64.29	71.43	70.97	63.44
German (20, 300, 700)	(0.2, 0.2)	78.23	80.64	80.81	76.42	78.61	79.71
	(0.3, 0.1)	75.74	78.85	78.50	76.42	79.02	78.44
	(0.4, 0.4)	72.16	76.71	73.99	75.49	75.72	72.43
Heart (13, 120, 150)	(0.2, 0.2)	71.85	74.05	74.30	73.55	74.65	72.80
	(0.3, 0.1)	72.40	74.95	74.55	72.85	75.20	74.70
	(0.4, 0.4)	60.00	66.70	64.45	68.60	68.30	62.30
Image (18, 1188, 898)	(0.2, 0.2)	79.85	82.78	83.52	78.33	82.22	81.48
	(0.3, 0.1)	74.85	80.56	77.41	77.22	81.85	78.15
	(0.4, 0.4)	59.11	70.19	62.96	65.00	70.74	63.33
Thyroid (5, 65, 150)	(0.2, 0.2)	87.64	87.42	89.40	81.44	89.62	89.55
	(0.3, 0.1)	84.79	84.78	87.42	69.19	86.94	86.84
	(0.4, 0.4)	77.21	70.24	79.57	76.70	79.57	78.71
Votes (5, 168, 267)	(0.2, 0.2)	64.43	67.38	68.81	69.53	65.72	65.48
	(0.3, 0.1)	61.57	62.14	61.43	65.95	65.96	66.67
	(0.4, 0.4)	61.57	57.86	61.91	60.48	63.33	63.33
Sonar (60, 97, 111)	(0.2, 0.2)	77.65	77.50	79.40	75.65	79.60	79.85
	(0.3, 0.1)	73.45	66.65	75.35	72.45	76.45	77.35
	(0.4, 0.4)	61.60	52.55	64.10	59.55	66.40	65.45
Fourclass (2, 307, 555)	(0.2, 0.2)	76.87	77.24	78.21	79.30	77.43	79.07
	(0.3, 0.1)	74.34	76.81	75.53	76.07	75.99	77.04
	(0.4, 0.4)	72.13	73.15	73.50	76.42	73.08	73.54
Svmguide3 (22, 337, 947)	(0.2, 0.2)	91.72	92.33	93.49	83.72	94.65	93.72
	(0.3, 0.1)	91.02	93.72	90.23	79.54	93.49	94.42
	(0.4, 0.4)	80.33	80.47	80.93	79.53	86.51	80.70
Splice (60, 617, 483)	(0.2, 0.2)	89.61	90.46	91.15	92.18	90.46	91.03
	(0.3, 0.1)	85.59	90.92	88.05	87.70	90.34	88.97
	(0.4, 0.4)	82.60	87.70	85.98	87.36	87.47	83.80
Average		74.70	76.38	76.83	75.25	78.35	77.02

Table 6: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^1)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRPF\ell_{hinge}$	$kRRPF\ell_{hinge}$	$cRRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.87	74.09	74.22	74.61	74.55	75.06
	(0.3, 0.1)	69.43	73.57	71.04	70.39	74.87	72.27
	(0.4, 0.4)	65.01	67.92	66.82	68.70	71.49	64.55
German (20, 300, 700)	(0.2, 0.2)	83.49	82.25	89.19	84.68	83.64	86.71
	(0.3, 0.1)	78.17	82.95	84.74	78.90	80.11	80.75
	(0.4, 0.4)	76.21	77.17	78.90	77.29	79.60	75.67
Heart (13, 120, 150)	(0.2, 0.2)	70.45	72.25	72.70	72.35	73.70	72.45
	(0.3, 0.1)	69.40	71.75	71.15	70.75	73.70	71.55
	(0.4, 0.4)	62.35	66.20	64.95	68.55	70.40	68.00
Image (18, 1188, 898)	(0.2, 0.2)	77.07	80.74	80.19	79.08	82.78	80.37
	(0.3, 0.1)	71.89	81.11	76.85	72.96	81.48	74.44
	(0.4, 0.4)	68.37	72.22	69.44	71.11	77.78	65.00
Thyroid (5, 65, 150)	(0.2, 0.2)	87.52	88.78	90.14	89.71	89.71	89.83
	(0.3, 0.1)	86.42	88.54	89.26	88.18	88.52	88.69
	(0.4, 0.4)	79.15	78.66	81.36	79.83	80.34	81.89
Votes (5, 168, 267)	(0.2, 0.2)	69.91	70.00	71.43	71.67	73.81	72.86
	(0.3, 0.1)	68.00	74.29	69.05	68.57	71.19	72.38
	(0.4, 0.4)	57.29	58.10	59.05	58.57	60.72	60.48
Sonar (60, 97, 111)	(0.2, 0.2)	78.15	79.35	80.75	81.00	81.60	80.40
	(0.3, 0.1)	74.05	78.80	76.20	75.90	78.00	77.35
	(0.4, 0.4)	61.20	61.50	63.05	63.55	65.75	61.45
Fourclass (2, 307, 555)	(0.2, 0.2)	76.06	75.21	78.17	78.37	75.95	79.18
	(0.3, 0.1)	70.96	73.15	73.00	72.53	73.39	73.19
	(0.4, 0.4)	70.10	71.95	69.73	73.93	70.00	71.67
Svmguide3 (22, 337, 947)	(0.2, 0.2)	91.72	92.09	92.33	91.63	94.18	94.42
	(0.3, 0.1)	89.16	90.93	90.00	89.77	92.33	91.86
	(0.4, 0.4)	84.51	84.42	86.05	82.33	88.37	85.81
Splice (60, 617, 483)	(0.2, 0.2)	89.15	90.92	91.49	90.12	90.92	91.15
	(0.3, 0.1)	89.38	92.64	91.26	90.46	92.30	91.38
	(0.4, 0.4)	77.66	88.85	77.93	85.87	89.89	80.81
Average		75.50	78.01	77.68	77.38	79.37	77.72

Table 7: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2¹)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	75.27	77.14	76.95	77.53	76.43	77.60
	(0.3, 0.1)	72.16	74.94	73.12	73.18	74.61	75.06
	(0.4, 0.4)	65.92	68.70	67.47	69.35	71.62	67.01
German (20, 300, 700)	(0.2, 0.2)	73.26	77.23	75.72	75.78	76.18	74.74
	(0.3, 0.1)	73.95	75.61	76.47	75.20	77.05	76.47
	(0.4, 0.4)	72.34	75.66	74.57	74.74	75.26	73.47
Heart (13, 120, 150)	(0.2, 0.2)	71.65	72.60	73.30	72.50	74.00	72.40
	(0.3, 0.1)	71.35	74.05	73.55	70.35	74.30	73.75
	(0.4, 0.4)	60.90	68.90	63.60	67.95	68.85	62.35
Image (18, 1188, 898)	(0.2, 0.2)	78.37	82.04	82.22	81.30	83.89	79.82
	(0.3, 0.1)	72.63	77.59	76.48	72.41	79.26	76.30
	(0.4, 0.4)	61.89	70.19	69.08	65.37	73.33	63.15
Thyroid (5, 65, 150)	(0.2, 0.2)	79.56	79.64	81.89	80.91	80.93	82.01
	(0.3, 0.1)	70.37	79.90	77.83	68.49	79.23	76.40
	(0.4, 0.4)	72.91	66.89	76.29	74.57	74.04	76.05
Votes (5, 168, 267)	(0.2, 0.2)	68.24	68.81	73.33	66.90	68.81	70.95
	(0.3, 0.1)	67.05	70.00	72.14	71.43	73.57	70.48
	(0.4, 0.4)	63.48	60.00	66.43	66.19	65.71	65.95
Sonar (60, 97, 111)	(0.2, 0.2)	73.05	72.45	75.60	75.30	75.70	75.35
	(0.3, 0.1)	69.50	69.35	70.95	69.30	72.00	71.70
	(0.4, 0.4)	59.80	58.35	62.15	62.65	62.10	62.50
Fourclass (2, 307, 555)	(0.2, 0.2)	77.92	77.16	78.68	78.64	76.07	79.73
	(0.3, 0.1)	75.16	77.94	77.08	76.46	77.74	78.68
	(0.4, 0.4)	73.45	74.59	75.52	77.39	74.16	73.66
Svmguide3 (22, 337, 947)	(0.2, 0.2)	81.72	82.79	85.12	82.79	85.58	85.58
	(0.3, 0.1)	80.09	83.26	83.26	78.84	86.51	84.19
	(0.4, 0.4)	72.19	78.37	77.68	78.84	78.37	71.40
Splice (60, 617, 483)	(0.2, 0.2)	88.69	91.38	91.15	91.72	92.07	90.46
	(0.3, 0.1)	88.46	91.95	91.15	89.89	91.26	90.80
	(0.4, 0.4)	77.08	87.13	78.74	82.88	88.51	77.93
Average		72.95	75.49	75.92	74.96	76.91	75.20

Table 8: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^1)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	75.01	77.14	76.88	76.88	77.14	77.21
	(0.3, 0.1)	66.12	77.40	71.75	72.34	77.47	76.36
	(0.4, 0.4)	67.48	69.74	70.07	69.81	70.20	63.05
German (20, 300, 700)	(0.2, 0.2)	73.43	76.65	77.40	77.80	74.68	75.84
	(0.3, 0.1)	65.34	77.11	77.86	71.39	75.43	73.59
	(0.4, 0.4)	67.31	74.28	72.14	71.45	74.16	60.93
Heart (13, 120, 150)	(0.2, 0.2)	71.55	73.15	73.35	72.85	74.40	72.55
	(0.3, 0.1)	67.10	71.85	70.50	70.20	72.60	71.35
	(0.4, 0.4)	63.25	67.75	65.30	68.50	70.10	68.15
Image (18, 1188, 898)	(0.2, 0.2)	76.52	78.70	77.59	77.96	79.26	76.85
	(0.3, 0.1)	76.33	77.96	79.26	75.37	77.96	79.07
	(0.4, 0.4)	68.19	68.52	71.30	69.07	72.96	69.82
Thyroid (5, 65, 150)	(0.2, 0.2)	75.78	75.65	84.19	82.92	81.34	83.42
	(0.3, 0.1)	73.24	78.68	80.93	72.68	81.01	78.40
	(0.4, 0.4)	71.11	73.37	74.98	72.73	74.88	75.92
Votes (5, 168, 267)	(0.2, 0.2)	69.91	70.95	72.86	73.81	70.24	70.72
	(0.3, 0.1)	70.38	71.90	72.14	71.19	71.91	71.43
	(0.4, 0.4)	56.33	57.86	58.33	56.19	61.67	57.62
Sonar (60, 97, 111)	(0.2, 0.2)	71.00	73.95	73.50	73.30	74.50	72.55
	(0.3, 0.1)	70.80	74.30	72.90	71.75	74.30	73.10
	(0.4, 0.4)	58.95	59.30	60.70	61.20	62.80	59.75
Fourclass (2, 307, 555)	(0.2, 0.2)	76.21	75.14	79.54	78.75	64.59	79.81
	(0.3, 0.1)	73.41	75.84	78.13	76.65	63.89	76.27
	(0.4, 0.4)	72.01	73.46	73.00	75.06	64.13	73.89
Svmguide3 (22, 337, 947)	(0.2, 0.2)	84.98	86.28	90.00	85.35	85.81	89.30
	(0.3, 0.1)	78.93	81.63	82.56	80.70	80.93	82.33
	(0.4, 0.4)	77.07	80.93	81.40	78.84	79.07	81.40
Splice (60, 617, 483)	(0.2, 0.2)	92.25	91.72	93.22	92.53	91.61	92.99
	(0.3, 0.1)	89.26	89.54	88.62	88.51	90.12	90.00
	(0.4, 0.4)	82.37	85.86	85.29	84.71	88.28	83.10
Average		72.72	75.55	76.19	75.02	75.25	75.22

Table 9: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2²)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	70.01	72.40	72.47	74.09	72.34	71.88
	(0.3, 0.1)	67.68	71.30	68.64	68.83	72.34	70.97
	(0.4, 0.4)	63.20	69.94	64.22	70.65	71.04	64.94
German (20, 300, 700)	(0.2, 0.2)	76.55	78.96	78.27	77.40	78.90	78.38
	(0.3, 0.1)	75.17	78.21	78.38	76.07	78.38	77.63
	(0.4, 0.4)	71.93	74.97	75.67	76.30	76.88	72.25
Heart (13, 120, 150)	(0.2, 0.2)	72.20	75.15	75.10	74.10	75.60	73.80
	(0.3, 0.1)	71.50	74.20	73.50	72.30	75.45	74.40
	(0.4, 0.4)	61.00	68.15	63.45	67.45	69.55	62.65
Image (18, 1188, 898)	(0.2, 0.2)	78.93	83.52	82.78	80.93	85.19	82.04
	(0.3, 0.1)	77.82	84.63	81.30	78.15	86.11	80.56
	(0.4, 0.4)	63.55	73.70	68.70	65.74	75.93	67.78
Thyroid (5, 65, 150)	(0.2, 0.2)	87.45	88.11	88.95	81.77	89.14	89.21
	(0.3, 0.1)	84.46	87.25	87.68	69.88	86.25	87.70
	(0.4, 0.4)	76.92	58.95	79.86	74.55	76.58	78.18
Votes (5, 168, 267)	(0.2, 0.2)	66.10	66.91	65.00	69.76	65.48	70.24
	(0.3, 0.1)	61.57	73.10	59.52	73.57	65.24	69.76
	(0.4, 0.4)	59.43	54.29	59.76	55.95	58.57	57.62
Sonar (60, 97, 111)	(0.2, 0.2)	73.95	76.25	75.65	72.55	75.65	75.85
	(0.3, 0.1)	72.30	77.85	74.30	72.75	74.35	74.70
	(0.4, 0.4)	63.20	66.65	65.60	61.75	68.35	66.90
Fourclass (2, 307, 555)	(0.2, 0.2)	76.29	76.69	78.29	79.14	74.94	78.75
	(0.3, 0.1)	75.28	77.35	76.85	77.20	76.69	78.33
	(0.4, 0.4)	67.53	71.60	69.65	72.18	67.28	68.06
Svmguide3 (22, 337, 947)	(0.2, 0.2)	90.33	91.17	90.93	83.02	93.26	91.63
	(0.3, 0.1)	89.63	91.63	90.70	83.02	93.02	91.39
	(0.4, 0.4)	83.58	82.56	86.97	79.30	87.91	87.44
Splice (60, 617, 483)	(0.2, 0.2)	91.68	93.68	91.84	93.45	89.89	93.10
	(0.3, 0.1)	87.88	91.61	90.35	89.88	90.46	90.58
	(0.4, 0.4)	72.83	84.49	76.67	79.54	84.83	76.32
Average		74.33	77.17	76.37	75.04	77.85	76.77

Table 10: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2²)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.68	73.83	74.35	74.81	73.96	74.16
	(0.3, 0.1)	69.69	72.66	71.23	70.91	73.12	72.99
	(0.4, 0.4)	64.88	69.87	66.88	70.52	70.13	63.83
German (20, 300, 700)	(0.2, 0.2)	85.17	82.49	90.52	86.36	83.99	88.44
	(0.3, 0.1)	79.04	84.22	86.71	79.71	81.68	81.73
	(0.4, 0.4)	70.66	72.08	74.68	74.16	77.17	73.93
Heart (13, 120, 150)	(0.2, 0.2)	71.25	72.95	73.10	73.05	74.90	73.05
	(0.3, 0.1)	70.60	74.70	72.30	72.20	75.05	73.90
	(0.4, 0.4)	63.35	69.55	66.10	69.00	69.95	68.25
Image (18, 1188, 898)	(0.2, 0.2)	79.48	80.93	82.22	78.89	83.33	81.30
	(0.3, 0.1)	75.59	81.30	77.59	73.89	83.15	78.52
	(0.4, 0.4)	63.93	72.41	67.04	68.52	75.93	62.96
Thyroid (5, 65, 150)	(0.2, 0.2)	87.79	88.30	90.10	89.88	89.55	90.03
	(0.3, 0.1)	87.40	87.75	89.81	89.16	89.43	89.55
	(0.4, 0.4)	79.99	64.40	82.27	82.01	75.05	82.78
Votes (5, 168, 267)	(0.2, 0.2)	75.86	78.57	77.38	78.33	77.14	77.62
	(0.3, 0.1)	66.33	73.81	67.62	65.48	70.00	70.48
	(0.4, 0.4)	59.43	61.19	62.62	63.57	67.86	62.14
Sonar (60, 97, 111)	(0.2, 0.2)	79.20	80.85	81.15	81.25	79.75	81.80
	(0.3, 0.1)	73.15	78.65	74.95	74.70	76.30	75.85
	(0.4, 0.4)	63.20	64.75	65.05	65.30	67.20	63.30
Fourclass (2, 307, 555)	(0.2, 0.2)	75.16	74.09	77.78	76.97	75.64	78.13
	(0.3, 0.1)	73.25	75.37	75.45	75.10	74.67	75.68
	(0.4, 0.4)	73.87	74.40	74.94	75.95	72.02	75.14
Svmguide3 (22, 337, 947)	(0.2, 0.2)	90.79	90.00	91.86	90.47	93.02	92.79
	(0.3, 0.1)	85.91	87.21	84.42	82.09	88.84	88.84
	(0.4, 0.4)	84.05	84.19	85.35	85.58	87.91	88.14
Splice (60, 617, 483)	(0.2, 0.2)	89.61	91.72	91.38	91.61	91.38	91.61
	(0.3, 0.1)	89.72	92.99	91.26	89.88	91.95	91.26
	(0.4, 0.4)	81.10	89.43	81.72	85.52	88.28	85.17
Average		76.07	78.15	78.26	77.83	79.28	78.44

Table 11: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^2)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.35	73.70	74.16	73.96	74.81	73.83
	(0.3, 0.1)	71.38	75.45	72.79	72.99	75.52	75.33
	(0.4, 0.4)	66.90	70.26	68.51	71.95	72.40	68.12
German (20, 300, 700)	(0.2, 0.2)	73.32	77.17	75.84	76.70	76.82	74.45
	(0.3, 0.1)	75.17	77.57	77.34	76.42	77.75	77.28
	(0.4, 0.4)	72.28	72.54	74.34	74.86	77.34	75.26
Heart (13, 120, 150)	(0.2, 0.2)	72.70	74.35	75.60	73.75	74.60	73.00
	(0.3, 0.1)	71.00	73.50	72.90	71.30	73.65	73.65
	(0.4, 0.4)	62.70	67.50	65.35	67.05	68.70	63.10
Image (18, 1188, 898)	(0.2, 0.2)	77.63	80.00	80.93	80.19	83.15	79.08
	(0.3, 0.1)	75.41	79.82	78.15	75.92	81.11	78.52
	(0.4, 0.4)	67.63	75.19	71.30	69.82	75.93	71.11
Thyroid (5, 65, 150)	(0.2, 0.2)	80.68	80.21	82.82	82.06	79.71	82.78
	(0.3, 0.1)	71.73	77.70	79.26	69.23	75.65	76.99
	(0.4, 0.4)	74.24	60.02	76.72	75.36	73.66	76.24
Votes (5, 168, 267)	(0.2, 0.2)	66.57	69.05	67.86	69.76	71.19	71.43
	(0.3, 0.1)	69.91	73.81	69.05	67.62	70.72	74.29
	(0.4, 0.4)	54.91	58.81	58.09	58.33	64.52	60.00
Sonar (60, 97, 111)	(0.2, 0.2)	72.80	75.05	74.70	74.80	75.85	74.55
	(0.3, 0.1)	71.80	75.25	73.70	71.85	73.90	74.10
	(0.4, 0.4)	59.30	61.70	61.35	61.55	63.25	61.45
Fourclass (2, 307, 555)	(0.2, 0.2)	78.74	78.29	80.08	79.77	75.18	81.13
	(0.3, 0.1)	76.79	78.60	77.82	77.20	76.30	79.50
	(0.4, 0.4)	72.24	73.77	74.28	75.10	70.97	72.22
Svmguide3 (22, 337, 947)	(0.2, 0.2)	85.91	85.12	85.81	85.35	89.07	86.98
	(0.3, 0.1)	78.70	81.40	80.93	78.37	82.09	80.23
	(0.4, 0.4)	79.86	80.23	79.77	79.77	83.95	77.68
Splice (60, 617, 483)	(0.2, 0.2)	90.18	91.95	90.46	91.26	89.54	91.38
	(0.3, 0.1)	88.69	91.72	89.43	89.66	89.66	90.34
	(0.4, 0.4)	77.43	88.74	81.61	85.41	88.62	75.75
Average		73.63	75.95	75.70	75.24	76.85	75.66

Table 12: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2²)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.33	74.42	74.55	75.59	73.12	73.31
	(0.3, 0.1)	66.83	74.61	71.10	72.15	75.26	74.61
	(0.4, 0.4)	67.35	70.00	68.83	70.07	70.78	68.83
German (20, 300, 700)	(0.2, 0.2)	74.42	75.26	78.84	77.63	78.04	75.90
	(0.3, 0.1)	68.12	78.32	80.23	69.54	78.61	78.96
	(0.4, 0.4)	68.35	64.86	72.83	69.08	75.15	69.25
Heart (13, 120, 150)	(0.2, 0.2)	69.50	70.15	72.85	72.65	73.85	71.00
	(0.3, 0.1)	68.10	71.75	70.45	70.70	73.50	70.70
	(0.4, 0.4)	63.50	69.15	65.35	68.25	70.35	65.50
Image (18, 1188, 898)	(0.2, 0.2)	75.22	78.52	79.63	75.18	79.26	77.78
	(0.3, 0.1)	76.52	78.70	74.63	73.33	80.55	76.67
	(0.4, 0.4)	67.44	75.00	67.22	68.52	75.19	62.04
Thyroid (5, 65, 150)	(0.2, 0.2)	75.61	74.76	83.88	82.46	78.54	81.70
	(0.3, 0.1)	72.74	75.12	81.53	73.97	74.64	76.87
	(0.4, 0.4)	70.23	62.03	73.78	72.73	70.98	75.74
Votes (5, 168, 267)	(0.2, 0.2)	68.00	70.00	71.67	71.19	71.43	69.29
	(0.3, 0.1)	65.86	68.33	70.24	66.43	66.43	69.53
	(0.4, 0.4)	54.19	60.71	58.10	60.24	58.33	57.86
Sonar (60, 97, 111)	(0.2, 0.2)	73.95	75.55	75.90	75.90	73.00	75.55
	(0.3, 0.1)	70.20	75.20	73.00	70.20	73.00	73.65
	(0.4, 0.4)	59.70	62.65	61.40	62.15	64.55	60.40
Fourclass (2, 307, 555)	(0.2, 0.2)	76.75	76.62	80.74	79.88	66.07	81.56
	(0.3, 0.1)	72.48	74.82	77.16	76.11	65.18	75.72
	(0.4, 0.4)	75.16	73.39	76.42	75.33	63.93	75.14
Svmguide3 (22, 337, 947)	(0.2, 0.2)	82.19	81.16	87.44	83.02	84.65	84.42
	(0.3, 0.1)	81.02	83.95	84.19	82.33	86.28	83.72
	(0.4, 0.4)	74.51	76.05	78.61	77.21	71.16	77.68
Splice (60, 617, 483)	(0.2, 0.2)	92.02	93.33	91.15	91.84	89.66	93.22
	(0.3, 0.1)	92.02	93.79	91.72	91.15	88.39	94.14
	(0.4, 0.4)	82.60	88.28	82.41	86.55	85.98	82.18
Average		72.60	74.88	75.86	74.71	74.53	75.10

Table 13: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^3)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	73.13 71.70 60.92	75.84 74.87 69.29	75.58 72.27 64.09	77.27 73.31 70.32	75.65 74.35 71.36	75.65 76.04 62.73
German (20, 300, 700)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	75.11 77.25 72.16	77.57 79.77 70.00	77.80 79.77 74.16	75.49 77.63 74.97	77.34 79.54 74.62	77.98 79.71 74.91
Heart (13, 120, 150)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	71.85 72.25 60.45	73.65 74.80 69.05	74.40 73.85 62.20	73.75 72.55 66.70	74.50 75.20 70.80	73.20 74.95 61.50
Image (18, 1188, 898)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	78.74 80.41 64.67	80.93 82.59 74.07	82.96 84.45 68.89	79.08 77.96 68.89	84.26 86.30 82.04	82.96 83.71 68.70
Thyroid (5, 65, 150)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	87.28 84.12 76.54	88.69 88.97 72.70	89.04 87.78 78.71	81.63 68.59 72.85	88.71 85.36 72.68	89.21 86.01 77.75
Votes (5, 168, 267)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	72.29 60.86 60.62	72.14 67.14 61.19	69.52 61.67 60.48	73.33 65.24 58.33	68.57 62.86 61.19	72.86 64.29 61.19
Sonar (60, 97, 111)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	77.20 72.25 60.50	79.30 77.60 63.35	78.70 73.55 62.55	76.20 71.05 60.65	76.95 73.60 64.90	79.95 74.95 64.60
Fourclass (2, 307, 555)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	75.67 74.93 69.95	76.31 77.08 74.51	77.55 75.91 72.84	79.14 76.85 74.28	73.00 77.24 67.04	77.94 78.56 70.74
Svmguide3 (22, 337, 947)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	92.88 89.16 74.98	93.49 91.16 77.44	94.42 89.54 78.14	85.35 78.61 74.65	94.88 92.56 82.33	95.12 91.86 76.74
Splice (60, 617, 483)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	89.84 88.46 78.00	91.95 91.26 85.29	91.38 90.46 81.49	92.87 89.43 85.75	90.57 89.65 89.89	91.61 91.03 80.57
Average		74.81	77.73	76.80	75.09	77.93	77.23

Table 14: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^3)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRRF\ell_{hinge}$	$kRRPD\ell_{hinge}$	$cRRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.64	73.96	72.99	75.45	75.59	73.77
	(0.3, 0.1)	70.73	74.54	72.01	72.15	74.55	73.25
	(0.4, 0.4)	66.05	68.38	68.25	68.96	72.01	62.73
German (20, 300, 700)	(0.2, 0.2)	82.16	80.06	89.02	83.24	80.87	86.99
	(0.3, 0.1)	79.62	86.59	88.21	80.52	82.54	83.01
	(0.4, 0.4)	76.09	66.19	80.06	77.34	78.61	78.15
Heart (13, 120, 150)	(0.2, 0.2)	71.15	71.30	73.15	73.05	73.25	72.75
	(0.3, 0.1)	69.85	73.80	71.85	70.90	74.10	73.00
	(0.4, 0.4)	61.00	70.15	63.60	65.45	69.95	67.15
Image (18, 1188, 898)	(0.2, 0.2)	79.30	81.30	82.41	81.48	83.89	80.18
	(0.3, 0.1)	75.22	78.89	77.04	74.07	81.85	77.22
	(0.4, 0.4)	65.96	72.59	68.52	67.59	77.04	65.74
Thyroid (5, 65, 150)	(0.2, 0.2)	87.45	89.48	89.47	89.48	89.28	89.50
	(0.3, 0.1)	84.10	89.42	87.25	85.65	85.69	86.65
	(0.4, 0.4)	80.06	71.72	80.55	81.27	76.70	83.04
Votes (5, 168, 267)	(0.2, 0.2)	71.10	73.33	74.76	74.29	71.67	74.53
	(0.3, 0.1)	64.19	73.81	64.52	62.14	69.52	69.05
	(0.4, 0.4)	57.52	61.19	61.19	60.71	65.72	60.95
Sonar (60, 97, 111)	(0.2, 0.2)	80.00	82.00	81.95	81.95	79.50	81.70
	(0.3, 0.1)	73.60	79.30	75.55	75.00	75.30	76.80
	(0.4, 0.4)	61.50	63.45	63.40	63.00	67.45	60.45
Fourclass (2, 307, 555)	(0.2, 0.2)	75.55	74.98	77.78	77.39	76.30	77.78
	(0.3, 0.1)	73.33	75.41	75.95	74.98	73.35	75.25
	(0.4, 0.4)	71.07	74.09	73.66	72.96	71.67	73.11
Svmguide3 (22, 337, 947)	(0.2, 0.2)	90.79	90.46	92.79	91.39	93.26	92.79
	(0.3, 0.1)	86.61	90.47	88.14	86.74	90.70	89.30
	(0.4, 0.4)	84.98	81.39	86.51	83.72	85.58	88.61
Splice (60, 617, 483)	(0.2, 0.2)	90.41	92.76	92.41	92.18	91.61	92.64
	(0.3, 0.1)	87.89	90.69	89.77	89.43	89.42	90.11
	(0.4, 0.4)	78.58	81.50	79.43	84.60	85.86	78.85
Average		75.58	77.77	78.07	77.24	78.76	77.84

Table 15: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^3)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.71	76.17	75.97	76.04	76.17	76.10
	(0.3, 0.1)	71.83	75.20	73.05	72.99	75.72	74.29
	(0.4, 0.4)	67.55	69.35	69.03	70.71	70.84	69.16
German (20, 300, 700)	(0.2, 0.2)	74.59	78.38	76.76	76.24	77.11	75.49
	(0.3, 0.1)	76.90	79.60	79.71	78.50	79.71	79.71
	(0.4, 0.4)	71.93	64.16	75.55	73.70	76.13	75.43
Heart (13, 120, 150)	(0.2, 0.2)	73.15	74.30	75.60	74.95	75.15	75.15
	(0.3, 0.1)	69.50	72.10	71.45	69.95	73.45	72.70
	(0.4, 0.4)	60.75	70.25	64.35	66.00	69.00	63.65
Image (18, 1188, 898)	(0.2, 0.2)	76.52	78.52	80.37	79.63	80.19	79.81
	(0.3, 0.1)	75.96	80.00	78.15	75.93	81.67	78.70
	(0.4, 0.4)	63.00	71.48	70.19	66.48	81.11	65.37
Thyroid (5, 65, 150)	(0.2, 0.2)	81.16	82.42	82.92	82.80	79.81	83.33
	(0.3, 0.1)	70.92	80.67	77.97	68.61	75.67	76.51
	(0.4, 0.4)	72.98	71.60	74.95	74.76	72.08	74.19
Votes (5, 168, 267)	(0.2, 0.2)	67.29	69.76	72.38	72.86	71.90	71.19
	(0.3, 0.1)	68.00	70.72	65.95	67.14	67.86	72.14
	(0.4, 0.4)	56.57	61.19	60.24	60.00	63.81	61.67
Sonar (60, 97, 111)	(0.2, 0.2)	73.80	75.90	76.15	75.00	73.60	74.50
	(0.3, 0.1)	68.95	73.70	70.90	69.30	71.45	71.50
	(0.4, 0.4)	56.80	59.40	58.95	59.25	62.60	59.10
Fourclass (2, 307, 555)	(0.2, 0.2)	78.66	77.90	79.65	79.57	76.03	80.55
	(0.3, 0.1)	76.17	78.25	76.61	76.66	76.50	78.99
	(0.4, 0.4)	71.77	74.75	74.16	74.94	68.25	72.84
Svmguide3 (22, 337, 947)	(0.2, 0.2)	81.26	79.77	83.95	81.63	85.12	84.88
	(0.3, 0.1)	80.79	83.95	83.95	81.63	85.35	84.42
	(0.4, 0.4)	74.28	79.30	80.23	79.77	80.47	73.26
Splice (60, 617, 483)	(0.2, 0.2)	90.07	91.72	91.49	93.22	91.95	91.95
	(0.3, 0.1)	89.38	92.30	91.61	89.77	90.57	91.26
	(0.4, 0.4)	74.09	81.73	79.20	84.48	87.36	73.68
Average		72.94	75.82	75.72	75.08	76.55	75.38

Table 16: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2³)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.43	73.38	76.04	76.17	74.94	76.82
	(0.3, 0.1)	65.66	71.75	68.70	68.38	74.61	74.55
	(0.4, 0.4)	69.62	67.66	72.21	72.27	73.57	66.23
German (20, 300, 700)	(0.2, 0.2)	74.30	74.74	78.44	77.51	77.69	76.30
	(0.3, 0.1)	66.61	74.16	77.11	68.61	76.30	74.86
	(0.4, 0.4)	67.65	63.58	74.80	71.16	75.15	69.36
Heart (13, 120, 150)	(0.2, 0.2)	72.55	70.45	75.10	75.10	74.90	73.15
	(0.3, 0.1)	68.95	71.40	72.40	71.55	74.05	73.95
	(0.4, 0.4)	63.95	69.35	65.10	66.35	69.50	64.00
Image (18, 1188, 898)	(0.2, 0.2)	78.37	81.30	81.67	83.52	80.74	80.00
	(0.3, 0.1)	77.07	80.19	79.07	75.74	81.11	81.30
	(0.4, 0.4)	68.19	73.52	71.48	71.67	77.78	69.63
Thyroid (5, 65, 150)	(0.2, 0.2)	77.71	75.93	83.21	82.56	62.82	83.02
	(0.3, 0.1)	74.72	77.89	81.60	74.55	61.51	79.52
	(0.4, 0.4)	71.52	70.55	75.50	73.06	65.98	76.34
Votes (5, 168, 267)	(0.2, 0.2)	67.29	68.57	69.05	70.95	61.19	68.57
	(0.3, 0.1)	67.76	72.14	70.95	71.91	66.19	69.52
	(0.4, 0.4)	53.95	56.67	60.24	55.71	58.10	56.19
Sonar (60, 97, 111)	(0.2, 0.2)	71.30	72.95	72.75	73.65	71.90	73.10
	(0.3, 0.1)	69.45	74.75	70.65	70.35	72.15	71.35
	(0.4, 0.4)	59.70	62.90	60.95	61.20	63.10	60.15
Fourclass (2, 307, 555)	(0.2, 0.2)	75.86	74.32	79.57	78.60	64.44	79.96
	(0.3, 0.1)	73.60	75.64	76.65	75.84	67.12	75.88
	(0.4, 0.4)	71.23	73.70	71.01	72.72	61.33	72.80
Svmguide3 (22, 337, 947)	(0.2, 0.2)	82.89	82.09	88.61	84.88	85.12	86.98
	(0.3, 0.1)	77.77	80.93	82.09	78.37	77.44	79.77
	(0.4, 0.4)	77.30	74.42	80.00	76.28	63.49	78.37
Splice (60, 617, 483)	(0.2, 0.2)	91.45	92.99	91.72	93.33	88.51	93.33
	(0.3, 0.1)	88.80	92.07	89.20	89.20	89.20	91.15
	(0.4, 0.4)	81.33	88.97	83.33	88.05	88.39	81.27
Average		72.70	74.63	75.97	74.97	72.61	75.25

Table 17: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^4)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	71.25 69.56 62.29	74.48 73.05 67.21	72.92 71.43 66.88	74.87 72.41 71.56	73.90 74.81 69.61	73.64 73.31 64.35
German (20, 300, 700)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	79.33 75.63 68.81	81.39 77.98 67.46	80.41 78.09 71.39	77.92 77.40 72.66	80.17 78.44 73.24	80.81 78.44 70.69
Heart (13, 120, 150)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	72.80 71.05 58.95	75.70 73.20 70.45	75.25 72.90 61.75	74.45 70.40 66.05	75.25 73.45 69.65	73.70 73.95 60.75
Image (18, 1188, 898)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	75.04 74.85 62.63	77.04 79.07 69.45	79.63 79.07 69.63	77.78 77.59 69.26	83.15 82.59 80.00	78.89 77.04 67.41
Thyroid (5, 65, 150)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	87.55 83.91 76.64	89.11 90.36 77.06	89.07 87.82 77.97	82.06 68.99 75.62	88.45 84.33 74.28	89.64 86.56 77.15
Votes (5, 168, 267)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	67.05 61.57 59.91	66.91 71.43 59.05	65.48 61.43 61.67	69.52 64.76 60.00	65.48 66.90 61.67	67.38 67.62 61.19
Sonar (60, 97, 111)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	75.90 70.55 62.50	77.85 76.00 65.10	77.65 72.00 64.85	74.00 70.10 60.85	75.85 72.35 66.90	77.55 74.25 65.00
Fourclass (2, 307, 555)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	76.79 75.04 66.80	76.38 77.24 73.74	77.98 76.19 71.44	78.95 77.12 73.39	71.99 77.12 66.69	78.79 78.17 68.25
Svmguide3 (22, 337, 947)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	91.72 90.33 80.33	94.18 92.56 78.14	94.42 90.93 84.65	86.05 79.30 75.12	94.65 93.02 83.72	93.95 90.93 81.16
Splice (60, 617, 483)	(0.2, 0.2) (0.3, 0.1) (0.4, 0.4)	89.72 88.69 80.87	91.03 91.72 77.82	90.12 89.54 84.14	91.03 90.00 85.75	90.80 88.97 86.90	90.80 91.38 82.99
Average		74.27	77.07	76.56	74.83	77.48	76.52

Table 18: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2⁴)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.90	72.79	73.90	73.77	74.48	73.83
	(0.3, 0.1)	67.22	71.49	69.09	69.42	74.48	70.33
	(0.4, 0.4)	66.57	65.00	66.88	69.03	72.14	66.36
German (20, 300, 700)	(0.2, 0.2)	82.74	82.14	88.90	84.45	83.41	86.65
	(0.3, 0.1)	78.17	82.49	84.97	79.02	80.81	81.10
	(0.4, 0.4)	76.32	69.02	80.69	78.26	80.87	71.96
Heart (13, 120, 150)	(0.2, 0.2)	71.50	72.60	72.65	73.55	74.70	73.05
	(0.3, 0.1)	69.35	72.15	71.30	70.10	74.55	72.60
	(0.4, 0.4)	61.70	70.05	63.35	67.15	70.50	66.70
Image (18, 1188, 898)	(0.2, 0.2)	80.22	81.11	82.78	82.78	85.00	80.56
	(0.3, 0.1)	74.67	78.52	75.56	75.00	83.15	77.04
	(0.4, 0.4)	63.74	64.63	64.63	65.93	78.33	62.41
Thyroid (5, 65, 150)	(0.2, 0.2)	87.57	89.23	89.91	89.74	88.11	89.62
	(0.3, 0.1)	86.95	90.12	89.02	88.73	87.94	89.09
	(0.4, 0.4)	79.84	75.38	80.91	82.11	73.92	82.49
Votes (5, 168, 267)	(0.2, 0.2)	72.76	74.76	75.71	74.52	73.33	75.71
	(0.3, 0.1)	68.00	73.10	67.62	64.53	69.29	69.76
	(0.4, 0.4)	62.52	59.76	64.76	62.14	62.14	50.00
Sonar (60, 97, 111)	(0.2, 0.2)	77.10	78.70	78.75	78.80	77.15	78.45
	(0.3, 0.1)	75.70	81.80	77.60	77.65	78.25	78.10
	(0.4, 0.4)	61.95	64.60	64.65	64.80	68.55	62.95
Fourclass (2, 307, 555)	(0.2, 0.2)	75.04	73.89	77.08	76.69	75.45	78.17
	(0.3, 0.1)	70.49	72.49	73.00	72.37	72.57	73.62
	(0.4, 0.4)	69.13	74.32	72.33	72.69	69.42	71.67
Svmguide3 (22, 337, 947)	(0.2, 0.2)	90.56	91.40	92.33	91.63	93.26	93.02
	(0.3, 0.1)	84.51	86.98	86.74	86.28	89.30	87.91
	(0.4, 0.4)	84.28	76.98	86.05	83.49	90.47	88.14
Splice (60, 617, 483)	(0.2, 0.2)	90.07	92.53	92.76	92.18	91.26	92.07
	(0.3, 0.1)	86.85	90.81	89.31	88.74	90.69	89.08
	(0.4, 0.4)	78.00	77.36	80.69	85.17	90.12	82.41
Average		75.51	76.87	77.80	77.36	79.12	77.16

Table 19: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^4)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.65	75.59	75.13	76.23	75.71	75.32
	(0.3, 0.1)	71.05	74.94	71.88	72.14	74.03	74.61
	(0.4, 0.4)	67.68	66.49	70.85	69.16	72.92	68.44
German (20, 300, 700)	(0.2, 0.2)	74.71	79.02	76.94	77.51	78.84	76.18
	(0.3, 0.1)	76.09	77.51	78.03	77.92	78.50	77.52
	(0.4, 0.4)	72.16	66.07	74.68	75.72	76.07	72.83
Heart (13, 120, 150)	(0.2, 0.2)	71.65	73.30	73.75	73.80	73.55	72.55
	(0.3, 0.1)	72.20	74.65	74.90	71.70	75.00	74.75
	(0.4, 0.4)	60.30	70.20	62.80	66.15	70.05	62.40
Image (18, 1188, 898)	(0.2, 0.2)	79.11	81.11	80.93	80.55	82.59	82.41
	(0.3, 0.1)	78.37	80.74	80.19	77.04	82.78	79.81
	(0.4, 0.4)	59.30	62.78	66.30	62.78	78.70	61.67
Thyroid (5, 65, 150)	(0.2, 0.2)	80.56	81.63	82.63	81.80	78.13	82.49
	(0.3, 0.1)	70.46	81.46	77.99	70.05	72.73	75.53
	(0.4, 0.4)	74.60	74.38	77.39	76.51	70.93	76.60
Votes (5, 168, 267)	(0.2, 0.2)	66.81	69.05	69.05	69.53	72.14	70.95
	(0.3, 0.1)	66.81	67.62	70.24	69.29	70.71	73.10
	(0.4, 0.4)	55.14	56.19	58.09	57.14	60.48	58.57
Sonar (60, 97, 111)	(0.2, 0.2)	72.55	74.50	74.50	75.10	74.45	73.80
	(0.3, 0.1)	71.15	74.85	73.05	71.40	73.45	73.05
	(0.4, 0.4)	57.55	60.15	60.00	60.20	61.05	59.45
Fourclass (2, 307, 555)	(0.2, 0.2)	78.43	77.82	79.77	79.42	76.97	80.70
	(0.3, 0.1)	76.87	78.91	77.78	77.39	78.56	79.96
	(0.4, 0.4)	68.04	73.08	70.86	72.34	67.90	68.52
Svmguide3 (22, 337, 947)	(0.2, 0.2)	81.95	81.16	85.81	82.56	84.42	86.74
	(0.3, 0.1)	80.56	82.09	83.02	81.40	84.42	82.79
	(0.4, 0.4)	78.00	76.51	83.03	81.16	82.10	81.63
Splice (60, 617, 483)	(0.2, 0.2)	91.10	92.87	91.84	91.72	91.15	91.38
	(0.3, 0.1)	88.11	91.95	91.72	89.66	89.89	90.00
	(0.4, 0.4)	76.51	71.61	80.58	84.26	89.77	77.82
Average		73.05	74.94	75.79	75.05	76.60	75.39

Table 20: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^4)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.32	71.23	74.87	75.00	74.09	75.78
	(0.3, 0.1)	64.10	70.97	69.35	69.48	72.47	73.05
	(0.4, 0.4)	69.23	63.31	70.26	69.42	70.46	67.21
German (20, 300, 700)	(0.2, 0.2)	72.86	67.40	75.26	75.66	74.74	74.86
	(0.3, 0.1)	67.02	78.96	78.79	70.06	77.52	78.56
	(0.4, 0.4)	66.85	64.68	74.11	68.33	76.19	69.54
Heart (13, 120, 150)	(0.2, 0.2)	70.30	68.45	74.10	71.90	71.15	72.75
	(0.3, 0.1)	67.25	69.75	69.65	70.60	71.55	71.50
	(0.4, 0.4)	61.90	69.60	65.15	67.35	68.90	66.50
Image (18, 1188, 898)	(0.2, 0.2)	80.22	82.22	79.82	80.56	81.11	81.30
	(0.3, 0.1)	75.41	79.63	77.04	75.56	80.74	78.15
	(0.4, 0.4)	62.63	69.26	65.37	65.00	74.26	57.22
Thyroid (5, 65, 150)	(0.2, 0.2)	78.34	76.94	83.47	83.18	62.11	82.37
	(0.3, 0.1)	72.59	75.34	80.53	72.65	60.77	78.78
	(0.4, 0.4)	70.99	71.87	75.77	72.82	64.33	75.81
Votes (5, 168, 267)	(0.2, 0.2)	69.43	72.38	73.10	72.86	72.86	73.57
	(0.3, 0.1)	71.10	70.95	72.38	71.91	68.10	74.05
	(0.4, 0.4)	59.67	62.14	60.48	63.10	55.48	62.38
Sonar (60, 97, 111)	(0.2, 0.2)	71.95	73.85	74.10	73.45	72.50	74.00
	(0.3, 0.1)	70.20	74.55	72.45	71.00	71.30	71.55
	(0.4, 0.4)	58.75	61.85	60.80	63.10	63.70	60.75
Fourclass (2, 307, 555)	(0.2, 0.2)	74.15	74.01	78.99	78.09	63.46	78.83
	(0.3, 0.1)	73.14	75.29	76.23	75.21	64.24	76.11
	(0.4, 0.4)	72.67	74.05	74.51	75.25	63.54	74.82
Svmguide3 (22, 337, 947)	(0.2, 0.2)	80.33	79.77	85.58	82.09	80.47	82.79
	(0.3, 0.1)	73.81	78.37	83.02	77.21	70.23	80.70
	(0.4, 0.4)	78.00	78.14	82.79	79.07	62.56	80.93
Splice (60, 617, 483)	(0.2, 0.2)	92.48	93.91	92.41	92.30	89.54	93.68
	(0.3, 0.1)	91.45	94.71	92.41	91.03	90.46	92.64
	(0.4, 0.4)	81.91	79.89	82.76	87.59	87.36	83.10
Average		72.40	74.12	75.85	74.66	71.87	75.44

Table 21: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^5)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.77	73.90	74.87	75.71	75.65	73.90
	(0.3, 0.1)	70.21	72.27	71.17	71.50	73.18	72.21
	(0.4, 0.4)	61.90	67.14	64.74	70.91	72.53	63.31
German (20, 300, 700)	(0.2, 0.2)	77.42	78.85	79.42	77.63	79.48	79.13
	(0.3, 0.1)	75.17	77.57	78.09	76.36	78.15	77.28
	(0.4, 0.4)	72.39	66.88	75.09	74.74	78.03	75.26
Heart (13, 120, 150)	(0.2, 0.2)	72.85	72.95	75.30	73.55	75.35	73.80
	(0.3, 0.1)	70.40	72.70	72.50	70.45	73.70	73.30
	(0.4, 0.4)	59.55	69.75	62.45	68.70	69.15	63.00
Image (18, 1188, 898)	(0.2, 0.2)	77.63	79.45	82.59	78.70	82.78	78.15
	(0.3, 0.1)	72.63	77.22	74.26	74.45	80.19	75.37
	(0.4, 0.4)	67.07	67.59	69.81	70.37	82.04	70.56
Thyroid (5, 65, 150)	(0.2, 0.2)	86.54	88.64	88.66	81.13	86.20	88.52
	(0.3, 0.1)	83.12	89.71	87.82	68.25	82.08	85.24
	(0.4, 0.4)	75.87	75.41	78.78	75.19	75.29	77.85
Votes (5, 168, 267)	(0.2, 0.2)	66.33	65.48	65.71	68.33	65.71	67.38
	(0.3, 0.1)	65.86	70.71	65.24	70.24	67.38	71.67
	(0.4, 0.4)	58.48	59.53	60.24	57.14	56.91	56.91
Sonar (60, 97, 111)	(0.2, 0.2)	74.55	76.90	76.70	73.75	75.50	76.50
	(0.3, 0.1)	72.20	77.75	73.85	72.40	74.45	75.15
	(0.4, 0.4)	64.15	66.10	66.30	62.40	67.60	65.50
Fourclass (2, 307, 555)	(0.2, 0.2)	78.00	77.39	78.99	80.93	75.22	80.00
	(0.3, 0.1)	76.09	78.40	77.32	78.21	78.68	79.42
	(0.4, 0.4)	71.15	73.07	73.89	76.03	68.33	72.30
Svmguide3 (22, 337, 947)	(0.2, 0.2)	93.58	94.42	95.35	86.98	94.19	93.26
	(0.3, 0.1)	92.19	94.42	90.70	80.47	94.42	93.95
	(0.4, 0.4)	82.88	78.37	86.51	78.84	85.35	86.51
Splice (60, 617, 483)	(0.2, 0.2)	90.18	92.87	91.72	91.84	89.43	91.49
	(0.3, 0.1)	86.74	90.80	89.31	88.51	89.08	91.03
	(0.4, 0.4)	77.89	78.16	83.34	85.98	88.97	79.77
Average		74.83	76.81	77.02	75.32	77.83	76.92

Table 22: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^5)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.61	74.42	75.07	75.07	74.55	74.16
	(0.3, 0.1)	69.04	73.12	70.39	69.94	74.61	72.47
	(0.4, 0.4)	68.33	67.08	69.35	70.20	72.53	69.74
German (20, 300, 700)	(0.2, 0.2)	84.19	82.95	90.35	85.90	82.66	86.94
	(0.3, 0.1)	77.37	82.54	84.80	78.73	80.17	80.12
	(0.4, 0.4)	74.99	66.71	74.80	76.30	77.92	77.28
Heart (13, 120, 150)	(0.2, 0.2)	71.10	71.00	73.15	72.70	73.00	72.85
	(0.3, 0.1)	70.65	73.30	71.95	71.30	74.40	73.20
	(0.4, 0.4)	61.35	69.65	63.95	67.85	69.95	65.95
Image (18, 1188, 898)	(0.2, 0.2)	77.44	79.07	80.19	76.48	80.19	79.82
	(0.3, 0.1)	72.81	79.45	76.67	73.89	82.78	75.93
	(0.4, 0.4)	63.37	65.93	65.93	66.48	78.15	64.44
Thyroid (5, 65, 150)	(0.2, 0.2)	87.40	89.02	89.59	89.43	88.06	89.52
	(0.3, 0.1)	86.35	89.90	88.40	88.01	85.65	88.71
	(0.4, 0.4)	80.06	72.75	81.20	81.58	75.21	82.25
Votes (5, 168, 267)	(0.2, 0.2)	71.57	73.33	74.52	72.62	69.76	73.33
	(0.3, 0.1)	67.76	76.91	70.00	66.19	71.67	69.53
	(0.4, 0.4)	59.43	61.67	60.95	60.95	61.19	56.67
Sonar (60, 97, 111)	(0.2, 0.2)	79.85	81.60	82.05	81.40	79.00	82.45
	(0.3, 0.1)	75.55	81.75	77.45	76.95	77.55	78.40
	(0.4, 0.4)	60.35	62.65	62.55	62.35	65.95	62.85
Fourclass (2, 307, 555)	(0.2, 0.2)	75.01	73.58	77.59	76.93	76.34	78.02
	(0.3, 0.1)	71.35	73.46	74.24	73.19	74.55	73.97
	(0.4, 0.4)	71.19	74.75	74.32	74.82	67.12	72.76
Svmguide3 (22, 337, 947)	(0.2, 0.2)	92.42	91.86	93.95	93.02	94.42	94.19
	(0.3, 0.1)	87.77	90.46	89.07	87.67	92.56	89.77
	(0.4, 0.4)	84.98	75.35	87.44	84.42	86.74	87.44
Splice (60, 617, 483)	(0.2, 0.2)	90.99	91.84	92.41	92.87	91.38	92.87
	(0.3, 0.1)	89.15	92.07	91.26	90.34	91.04	91.15
	(0.4, 0.4)	77.31	75.63	78.39	85.75	89.66	77.36
Average		75.72	77.13	78.07	77.44	78.62	77.80

Table 23: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^5)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.88	77.21	76.43	76.69	77.21	77.21
	(0.3, 0.1)	70.40	74.03	70.98	71.43	75.13	74.03
	(0.4, 0.4)	67.55	66.82	69.61	71.50	72.92	69.29
German (20, 300, 700)	(0.2, 0.2)	74.59	79.42	76.53	77.17	77.57	75.38
	(0.3, 0.1)	75.11	76.59	76.36	76.88	76.18	76.30
	(0.4, 0.4)	72.91	66.47	75.61	76.53	77.46	74.28
Heart (13, 120, 150)	(0.2, 0.2)	73.20	74.35	74.70	74.40	74.75	74.05
	(0.3, 0.1)	71.50	74.15	74.15	72.40	74.55	73.30
	(0.4, 0.4)	64.80	69.45	67.25	71.55	70.80	67.30
Image (18, 1188, 898)	(0.2, 0.2)	75.78	78.15	80.74	77.96	83.52	79.45
	(0.3, 0.1)	73.93	77.04	76.48	73.15	82.04	73.89
	(0.4, 0.4)	64.67	68.70	70.56	70.74	79.26	67.41
Thyroid (5, 65, 150)	(0.2, 0.2)	79.34	80.93	82.15	81.46	76.89	81.92
	(0.3, 0.1)	70.03	81.89	77.49	69.93	73.16	75.38
	(0.4, 0.4)	72.79	74.14	76.08	74.24	68.83	74.64
Votes (5, 168, 267)	(0.2, 0.2)	68.95	72.38	74.76	72.86	68.81	74.05
	(0.3, 0.1)	69.19	70.48	70.24	72.38	69.53	73.10
	(0.4, 0.4)	58.48	62.62	62.38	60.95	60.24	61.67
Sonar (60, 97, 111)	(0.2, 0.2)	71.80	73.30	74.20	74.40	74.05	72.80
	(0.3, 0.1)	72.00	76.95	73.80	74.30	74.50	72.95
	(0.4, 0.4)	58.85	60.90	61.25	61.30	62.20	61.20
Fourclass (2, 307, 555)	(0.2, 0.2)	78.66	78.64	80.78	80.12	76.15	80.86
	(0.3, 0.1)	74.65	76.65	75.22	74.90	74.98	77.78
	(0.4, 0.4)	70.96	74.79	72.65	75.33	68.21	71.17
Svmguide3 (22, 337, 947)	(0.2, 0.2)	81.72	82.33	86.05	82.56	83.95	84.19
	(0.3, 0.1)	80.09	83.02	82.33	80.93	83.26	84.65
	(0.4, 0.4)	75.91	74.88	80.00	78.61	79.30	76.28
Splice (60, 617, 483)	(0.2, 0.2)	87.89	91.03	90.23	91.84	89.20	90.23
	(0.3, 0.1)	87.77	90.35	90.35	88.62	89.77	89.54
	(0.4, 0.4)	72.83	70.80	80.00	82.07	90.23	74.83
Average		73.04	75.28	75.98	75.57	76.15	75.30

Table 24: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^5)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.23	74.03	76.69	76.56	74.16	76.56
	(0.3, 0.1)	67.68	75.65	71.56	71.62	74.74	75.46
	(0.4, 0.4)	68.20	65.46	69.61	72.08	69.74	65.33
German (20, 300, 700)	(0.2, 0.2)	73.49	72.31	78.38	77.34	77.80	75.90
	(0.3, 0.1)	66.44	74.86	78.61	68.50	77.75	75.26
	(0.4, 0.4)	69.68	63.82	72.95	72.08	76.13	68.90
Heart (13, 120, 150)	(0.2, 0.2)	69.85	70.80	72.00	72.65	71.15	71.90
	(0.3, 0.1)	67.80	70.25	71.00	70.25	72.15	71.05
	(0.4, 0.4)	62.20	70.75	64.40	68.45	67.35	65.25
Image (18, 1188, 898)	(0.2, 0.2)	78.74	79.26	80.93	81.11	78.89	78.70
	(0.3, 0.1)	78.00	79.82	79.63	76.85	82.59	79.07
	(0.4, 0.4)	67.63	65.93	70.37	68.33	76.11	65.18
Thyroid (5, 65, 150)	(0.2, 0.2)	78.31	77.73	83.71	83.54	63.25	83.69
	(0.3, 0.1)	74.67	76.72	82.49	74.19	60.48	78.64
	(0.4, 0.4)	70.42	70.84	72.99	73.35	60.86	76.96
Votes (5, 168, 267)	(0.2, 0.2)	67.53	69.05	68.81	70.00	65.24	71.43
	(0.3, 0.1)	64.91	66.67	64.53	66.91	61.43	69.05
	(0.4, 0.4)	55.62	57.14	59.29	55.00	60.48	59.52
Sonar (60, 97, 111)	(0.2, 0.2)	73.40	75.30	75.75	75.55	73.95	75.95
	(0.3, 0.1)	71.15	75.80	73.25	71.60	72.90	73.05
	(0.4, 0.4)	59.20	61.25	61.55	61.75	62.55	60.35
Fourclass (2, 307, 555)	(0.2, 0.2)	78.16	75.33	80.66	79.77	65.25	80.82
	(0.3, 0.1)	74.03	76.15	78.72	77.35	66.38	76.58
	(0.4, 0.4)	70.18	72.14	72.69	72.69	63.23	72.34
Svmguide3 (22, 337, 947)	(0.2, 0.2)	82.89	82.09	87.67	82.79	75.58	88.37
	(0.3, 0.1)	75.91	78.14	81.86	77.21	78.14	80.00
	(0.4, 0.4)	75.21	71.40	76.75	76.28	72.79	72.56
Splice (60, 617, 483)	(0.2, 0.2)	92.83	93.56	92.53	93.45	90.12	94.25
	(0.3, 0.1)	91.22	94.25	91.72	91.03	89.77	93.68
	(0.4, 0.4)	78.80	74.37	83.45	86.90	88.16	79.66
Average		72.61	73.69	75.82	74.84	72.30	75.18

Table 25: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^6)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.90	73.90	73.96	76.23	75.78	74.16
	(0.3, 0.1)	70.92	73.57	71.82	72.47	73.83	73.31
	(0.4, 0.4)	60.60	66.88	63.05	71.10	70.91	63.57
German (20, 300, 700)	(0.2, 0.2)	76.79	77.98	79.19	76.30	78.61	79.77
	(0.3, 0.1)	74.93	78.09	79.02	74.80	78.44	78.09
	(0.4, 0.4)	72.28	68.96	73.47	75.49	76.99	74.74
Heart (13, 120, 150)	(0.2, 0.2)	71.50	73.55	74.10	74.60	74.10	72.95
	(0.3, 0.1)	71.40	73.65	73.30	71.75	74.15	73.55
	(0.4, 0.4)	58.55	67.80	61.40	66.75	66.95	62.85
Image (18, 1188, 898)	(0.2, 0.2)	77.45	78.89	81.11	77.59	81.85	79.82
	(0.3, 0.1)	71.33	76.85	76.11	72.04	82.04	75.93
	(0.4, 0.4)	62.44	65.37	66.11	65.00	79.08	67.59
Thyroid (5, 65, 150)	(0.2, 0.2)	87.64	89.74	89.47	82.51	88.09	89.83
	(0.3, 0.1)	84.72	90.05	88.40	69.81	80.67	86.99
	(0.4, 0.4)	77.64	76.29	80.26	76.17	75.17	79.14
Votes (5, 168, 267)	(0.2, 0.2)	65.38	67.86	66.90	67.62	62.86	65.47
	(0.3, 0.1)	62.76	70.48	64.29	68.10	67.14	67.38
	(0.4, 0.4)	57.05	58.81	58.57	58.10	58.09	56.67
Sonar (60, 97, 111)	(0.2, 0.2)	76.60	78.35	78.05	76.10	77.05	79.10
	(0.3, 0.1)	72.90	78.60	74.80	71.85	74.10	76.15
	(0.4, 0.4)	61.80	64.65	64.05	61.00	67.65	65.75
Fourclass (2, 307, 555)	(0.2, 0.2)	77.07	76.07	78.21	79.42	74.20	79.49
	(0.3, 0.1)	75.12	77.28	76.11	76.34	77.98	78.64
	(0.4, 0.4)	68.43	75.64	71.36	74.05	66.73	69.92
Svmguide3 (22, 337, 947)	(0.2, 0.2)	92.88	92.56	92.56	82.33	94.19	95.81
	(0.3, 0.1)	90.79	93.02	90.47	78.14	93.72	93.49
	(0.4, 0.4)	83.58	82.33	86.74	78.84	85.81	85.58
Splice (60, 617, 483)	(0.2, 0.2)	90.07	92.41	92.99	91.95	91.95	92.07
	(0.3, 0.1)	89.84	92.30	91.26	92.30	91.84	91.84
	(0.4, 0.4)	77.20	72.87	80.92	82.53	86.44	77.82
Average		74.38	76.83	76.60	74.71	77.55	76.92

Table 26: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^6)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.94	74.29	73.77	75.20	74.87	75.06
	(0.3, 0.1)	68.33	71.69	69.94	69.68	72.79	71.56
	(0.4, 0.4)	66.38	64.03	67.21	69.42	71.75	66.63
German (20, 300, 700)	(0.2, 0.2)	84.82	83.64	91.22	86.82	84.97	89.08
	(0.3, 0.1)	78.29	83.93	85.78	79.42	81.27	80.81
	(0.4, 0.4)	78.17	67.23	80.17	80.29	80.06	80.35
Heart (13, 120, 150)	(0.2, 0.2)	72.00	71.40	73.70	73.90	75.20	74.80
	(0.3, 0.1)	70.65	73.05	72.00	72.05	74.60	73.70
	(0.4, 0.4)	61.90	69.00	63.30	67.95	70.40	64.80
Image (18, 1188, 898)	(0.2, 0.2)	80.59	82.78	84.63	82.04	85.19	80.93
	(0.3, 0.1)	72.81	77.78	75.74	71.85	82.04	75.56
	(0.4, 0.4)	64.30	63.89	65.37	66.67	76.48	64.07
Thyroid (5, 65, 150)	(0.2, 0.2)	88.07	89.59	90.14	90.02	90.14	90.12
	(0.3, 0.1)	86.23	89.14	89.00	87.75	84.62	88.37
	(0.4, 0.4)	79.70	75.76	81.65	81.17	72.82	82.56
Votes (5, 168, 267)	(0.2, 0.2)	66.57	67.38	65.24	67.62	66.43	68.33
	(0.3, 0.1)	64.91	70.48	63.10	63.81	66.43	67.86
	(0.4, 0.4)	56.81	56.19	58.81	58.09	60.24	60.95
Sonar (60, 97, 111)	(0.2, 0.2)	79.25	81.15	81.10	81.45	79.50	81.30
	(0.3, 0.1)	72.80	80.05	75.35	74.40	76.20	75.85
	(0.4, 0.4)	64.30	66.05	66.70	66.30	68.50	66.95
Fourclass (2, 307, 555)	(0.2, 0.2)	76.17	74.98	78.45	78.17	75.06	78.95
	(0.3, 0.1)	72.98	75.18	75.56	74.98	75.95	76.11
	(0.4, 0.4)	69.52	72.92	71.48	73.81	67.08	73.08
Svmguide3 (22, 337, 947)	(0.2, 0.2)	91.49	90.93	92.09	91.86	93.49	92.79
	(0.3, 0.1)	88.47	90.93	88.60	88.84	91.63	90.93
	(0.4, 0.4)	78.47	73.49	76.98	77.68	81.63	81.86
Splice (60, 617, 483)	(0.2, 0.2)	91.68	93.45	92.87	93.10	92.41	93.68
	(0.3, 0.1)	89.61	92.87	91.72	90.69	91.26	91.72
	(0.4, 0.4)	76.16	68.97	74.02	82.42	88.28	76.67
Average		75.48	76.41	77.19	77.25	78.38	77.85

Table 27: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^6)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	75.99	77.34	77.53	77.86	76.49	78.31
	(0.3, 0.1)	72.03	75.07	73.25	73.18	74.48	74.94
	(0.4, 0.4)	64.04	66.88	66.75	69.09	69.94	65.59
German (20, 300, 700)	(0.2, 0.2)	73.26	78.21	75.72	75.84	77.00	74.45
	(0.3, 0.1)	74.36	76.30	76.13	76.01	77.69	76.07
	(0.4, 0.4)	72.28	65.90	74.45	74.16	75.90	74.45
Heart (13, 120, 150)	(0.2, 0.2)	69.90	71.85	72.05	71.45	71.55	70.30
	(0.3, 0.1)	70.80	73.20	73.25	70.50	73.60	73.20
	(0.4, 0.4)	63.60	69.65	66.50	68.65	69.90	63.65
Image (18, 1188, 898)	(0.2, 0.2)	75.22	76.67	79.26	76.48	81.11	76.48
	(0.3, 0.1)	74.85	78.33	78.52	74.26	81.85	77.22
	(0.4, 0.4)	64.30	66.11	69.63	68.52	78.71	65.56
Thyroid (5, 65, 150)	(0.2, 0.2)	81.40	83.14	84.64	83.13	78.54	83.90
	(0.3, 0.1)	71.71	81.20	78.37	70.00	73.52	76.91
	(0.4, 0.4)	74.56	73.11	76.96	75.86	71.05	75.88
Votes (5, 168, 267)	(0.2, 0.2)	62.76	65.24	67.62	65.00	63.57	71.67
	(0.3, 0.1)	69.19	74.28	70.48	66.19	69.76	74.05
	(0.4, 0.4)	53.00	55.00	57.86	57.14	60.95	58.33
Sonar (60, 97, 111)	(0.2, 0.2)	72.80	74.80	75.05	75.10	74.75	74.40
	(0.3, 0.1)	70.80	74.75	72.90	72.20	73.75	72.70
	(0.4, 0.4)	58.85	60.90	61.55	62.25	64.50	60.30
Fourclass (2, 307, 555)	(0.2, 0.2)	78.39	78.60	80.55	80.16	77.47	80.43
	(0.3, 0.1)	76.01	78.21	76.85	77.12	76.93	79.30
	(0.4, 0.4)	70.99	74.75	72.76	74.67	70.04	71.29
Svmguide3 (22, 337, 947)	(0.2, 0.2)	84.28	84.19	88.14	84.88	86.28	89.07
	(0.3, 0.1)	77.30	80.23	79.30	76.98	81.40	80.23
	(0.4, 0.4)	75.68	76.05	81.86	82.33	81.40	74.42
Splice (60, 617, 483)	(0.2, 0.2)	87.89	88.97	88.85	90.23	87.13	88.28
	(0.3, 0.1)	89.61	92.07	91.72	89.66	91.15	92.18
	(0.4, 0.4)	75.24	73.91	80.00	83.45	87.82	75.98
Average		72.70	74.83	75.62	74.74	75.94	74.98

Table 28: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^6)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	72.74	71.82	74.61	74.67	73.18	74.35
	(0.3, 0.1)	63.59	71.75	69.87	68.83	74.03	73.57
	(0.4, 0.4)	69.89	66.23	72.40	72.66	71.75	72.14
German (20, 300, 700)	(0.2, 0.2)	70.31	68.50	75.44	72.72	74.62	73.41
	(0.3, 0.1)	66.84	73.53	78.15	69.31	76.76	76.42
	(0.4, 0.4)	68.52	63.70	74.11	71.85	76.70	72.20
Heart (13, 120, 150)	(0.2, 0.2)	71.20	69.35	74.05	72.90	71.35	72.65
	(0.3, 0.1)	68.90	71.40	72.65	71.50	72.70	71.00
	(0.4, 0.4)	64.70	69.70	67.75	69.45	69.25	65.95
Image (18, 1188, 898)	(0.2, 0.2)	76.15	78.33	78.89	79.45	79.81	79.08
	(0.3, 0.1)	78.19	82.22	82.78	78.52	82.04	81.48
	(0.4, 0.4)	68.74	70.00	71.11	70.00	77.41	66.67
Thyroid (5, 65, 150)	(0.2, 0.2)	77.67	76.94	84.14	83.66	61.34	84.12
	(0.3, 0.1)	71.01	78.69	80.07	70.43	60.96	76.44
	(0.4, 0.4)	70.51	69.14	75.21	72.34	60.29	78.21
Votes (5, 168, 267)	(0.2, 0.2)	66.57	68.10	70.95	69.53	64.76	69.05
	(0.3, 0.1)	68.72	71.43	68.57	68.33	64.52	72.86
	(0.4, 0.4)	51.81	54.05	54.52	53.57	59.52	53.10
Sonar (60, 97, 111)	(0.2, 0.2)	73.60	75.25	75.05	75.45	72.45	75.55
	(0.3, 0.1)	70.90	75.75	72.90	71.70	72.85	73.65
	(0.4, 0.4)	60.05	62.05	62.05	63.45	66.00	63.20
Fourclass (2, 307, 555)	(0.2, 0.2)	75.59	74.01	79.10	78.13	68.21	80.23
	(0.3, 0.1)	73.91	75.91	77.36	76.07	64.86	76.62
	(0.4, 0.4)	71.07	72.84	73.54	73.19	64.16	74.55
Svmguide3 (22, 337, 947)	(0.2, 0.2)	82.42	83.49	89.30	84.89	80.23	89.54
	(0.3, 0.1)	74.51	77.21	81.40	76.28	72.09	83.02
	(0.4, 0.4)	79.63	73.02	83.72	79.30	66.28	82.56
Splice (60, 617, 483)	(0.2, 0.2)	90.76	92.30	91.72	91.95	88.97	92.99
	(0.3, 0.1)	88.34	90.92	90.58	89.89	89.08	89.89
	(0.4, 0.4)	80.07	72.64	84.14	85.75	87.47	82.53
Average		72.23	73.34	76.20	74.53	72.12	75.90

Table 29: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^7)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.20	73.57	75.39	74.87	74.35	75.20
	(0.3, 0.1)	69.63	73.38	71.43	72.14	74.55	72.73
	(0.4, 0.4)	65.60	68.38	68.12	73.31	73.90	68.57
German (20, 300, 700)	(0.2, 0.2)	76.38	79.30	77.75	76.01	77.69	78.96
	(0.3, 0.1)	76.21	79.02	79.02	77.63	79.94	79.42
	(0.4, 0.4)	72.45	66.70	75.84	73.58	75.14	72.31
Heart (13, 120, 150)	(0.2, 0.2)	72.30	73.30	74.55	74.35	74.50	74.60
	(0.3, 0.1)	71.35	73.75	72.95	70.40	74.55	72.70
	(0.4, 0.4)	61.55	70.30	65.35	69.25	70.25	64.65
Image (18, 1188, 898)	(0.2, 0.2)	78.00	80.56	82.04	81.67	83.33	80.37
	(0.3, 0.1)	70.96	77.96	75.56	73.33	80.93	77.04
	(0.4, 0.4)	65.04	67.41	72.04	68.89	78.15	68.15
Thyroid (5, 65, 150)	(0.2, 0.2)	88.43	89.93	90.17	82.27	89.69	91.03
	(0.3, 0.1)	84.53	90.14	88.57	71.29	85.02	87.75
	(0.4, 0.4)	76.81	76.32	80.41	74.79	71.48	78.16
Votes (5, 168, 267)	(0.2, 0.2)	69.67	70.24	69.76	72.14	65.48	68.57
	(0.3, 0.1)	62.52	71.43	60.95	69.05	64.76	66.43
	(0.4, 0.4)	62.76	64.76	63.57	66.19	60.48	61.19
Sonar (60, 97, 111)	(0.2, 0.2)	75.65	77.45	77.70	75.25	75.50	78.05
	(0.3, 0.1)	72.45	77.80	74.25	73.15	73.60	75.40
	(0.4, 0.4)	61.55	62.65	63.25	60.95	66.75	63.25
Fourclass (2, 307, 555)	(0.2, 0.2)	75.70	74.51	77.08	78.99	74.40	78.37
	(0.3, 0.1)	75.28	77.39	76.58	77.12	76.42	78.29
	(0.4, 0.4)	71.77	74.87	73.04	75.92	71.56	71.95
Svmguide3 (22, 337, 947)	(0.2, 0.2)	93.35	93.95	94.65	84.88	93.95	94.88
	(0.3, 0.1)	89.63	92.09	90.70	83.49	92.79	93.72
	(0.4, 0.4)	80.79	73.26	86.05	73.95	81.86	83.49
Splice (60, 617, 483)	(0.2, 0.2)	89.72	91.38	91.26	92.41	88.85	90.92
	(0.3, 0.1)	89.15	92.41	90.34	89.54	91.38	92.18
	(0.4, 0.4)	81.11	79.31	85.06	82.41	87.24	83.22
Average		75.12	77.11	77.45	75.64	77.62	77.38

Table 30: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^7)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRPD\ell_{hinge}$	$cRPD\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.18	72.14	72.47	73.90	74.61	72.73
	(0.3, 0.1)	67.55	71.88	69.94	69.03	72.53	71.43
	(0.4, 0.4)	64.49	66.62	65.59	67.86	69.68	67.86
German (20, 300, 700)	(0.2, 0.2)	83.03	83.01	90.87	84.28	82.60	86.13
	(0.3, 0.1)	79.73	84.22	85.90	81.45	80.87	82.43
	(0.4, 0.4)	76.15	67.69	78.90	77.63	78.73	77.57
Heart (13, 120, 150)	(0.2, 0.2)	70.20	72.35	72.25	72.35	72.20	71.85
	(0.3, 0.1)	70.40	72.55	72.35	70.95	73.65	72.70
	(0.4, 0.4)	61.90	70.20	64.70	65.90	70.10	66.55
Image (18, 1188, 898)	(0.2, 0.2)	76.15	78.52	78.70	78.71	80.74	79.07
	(0.3, 0.1)	73.19	76.85	77.22	75.93	81.48	75.56
	(0.4, 0.4)	59.85	61.30	61.85	62.78	76.48	58.70
Thyroid (5, 65, 150)	(0.2, 0.2)	86.90	88.06	89.12	89.04	87.54	89.09
	(0.3, 0.1)	87.16	89.38	89.91	88.83	88.95	89.38
	(0.4, 0.4)	81.02	76.82	83.57	82.90	75.38	84.26
Votes (5, 168, 267)	(0.2, 0.2)	73.00	75.00	75.71	75.71	73.81	76.43
	(0.3, 0.1)	65.62	71.67	67.86	66.67	67.62	69.76
	(0.4, 0.4)	62.52	66.90	65.71	64.52	63.09	64.05
Sonar (60, 97, 111)	(0.2, 0.2)	78.75	80.75	80.80	80.70	79.25	80.75
	(0.3, 0.1)	73.15	81.10	75.15	74.75	77.35	76.35
	(0.4, 0.4)	62.45	64.75	64.70	64.75	67.05	65.30
Fourclass (2, 307, 555)	(0.2, 0.2)	75.04	73.81	77.16	76.89	73.77	77.98
	(0.3, 0.1)	72.71	74.67	74.86	74.40	75.45	74.44
	(0.4, 0.4)	72.01	74.24	73.97	74.20	68.91	74.20
Svmguide3 (22, 337, 947)	(0.2, 0.2)	88.93	89.30	91.40	89.07	91.63	91.16
	(0.3, 0.1)	90.32	92.79	90.23	87.44	92.79	92.56
	(0.4, 0.4)	81.02	75.12	83.26	81.63	86.05	82.56
Splice (60, 617, 483)	(0.2, 0.2)	91.22	92.64	93.22	92.53	92.99	93.56
	(0.3, 0.1)	88.92	92.41	91.15	90.23	91.38	91.04
	(0.4, 0.4)	76.62	75.86	77.82	84.83	88.28	80.81
Average		75.37	77.09	77.88	77.33	78.50	77.87

Table 31: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^7)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.13	75.32	75.00	76.49	75.19	75.58
	(0.3, 0.1)	71.31	74.81	72.66	72.60	74.48	75.65
	(0.4, 0.4)	68.59	69.16	70.45	71.69	73.25	70.07
German (20, 300, 700)	(0.2, 0.2)	73.43	77.00	75.49	75.55	75.90	74.51
	(0.3, 0.1)	76.44	78.15	78.38	78.09	78.90	78.56
	(0.4, 0.4)	73.32	66.01	74.80	75.95	76.71	73.99
Heart (13, 120, 150)	(0.2, 0.2)	71.25	73.70	73.75	73.70	73.95	72.75
	(0.3, 0.1)	71.55	74.10	73.85	70.80	74.05	74.05
	(0.4, 0.4)	63.00	69.30	65.30	67.50	69.35	65.00
Image (18, 1188, 898)	(0.2, 0.2)	74.67	76.48	78.33	77.04	79.26	76.48
	(0.3, 0.1)	76.70	80.00	77.41	76.11	82.04	77.41
	(0.4, 0.4)	58.37	62.78	65.74	64.82	75.18	60.56
Thyroid (5, 65, 150)	(0.2, 0.2)	80.11	82.34	82.82	81.96	78.21	82.25
	(0.3, 0.1)	72.07	82.18	78.06	71.15	74.24	76.22
	(0.4, 0.4)	72.04	70.65	74.88	73.83	70.31	73.59
Votes (5, 168, 267)	(0.2, 0.2)	67.05	68.57	70.95	70.00	67.62	72.38
	(0.3, 0.1)	66.81	68.81	70.24	69.52	65.72	73.57
	(0.4, 0.4)	57.29	59.29	59.52	60.48	60.95	60.48
Sonar (60, 97, 111)	(0.2, 0.2)	70.60	72.50	71.80	71.85	71.20	72.85
	(0.3, 0.1)	69.60	73.70	71.75	69.85	72.45	71.60
	(0.4, 0.4)	61.80	64.00	64.75	63.90	67.35	64.15
Fourclass (2, 307, 555)	(0.2, 0.2)	77.88	77.98	78.95	78.83	74.75	80.19
	(0.3, 0.1)	74.38	76.69	75.49	74.51	76.73	77.90
	(0.4, 0.4)	70.65	74.90	74.32	74.59	69.46	71.87
Svmguide3 (22, 337, 947)	(0.2, 0.2)	83.35	83.49	85.35	84.42	88.14	86.05
	(0.3, 0.1)	79.40	81.86	81.40	79.30	84.65	83.72
	(0.4, 0.4)	75.21	78.14	78.14	78.14	80.93	74.42
Splice (60, 617, 483)	(0.2, 0.2)	89.27	91.38	92.07	92.64	91.04	91.15
	(0.3, 0.1)	87.89	91.61	89.54	89.77	89.54	91.04
	(0.4, 0.4)	74.67	70.69	81.38	83.10	89.54	75.75
Average		72.73	74.85	75.42	74.94	76.04	75.13

Table 32: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^7)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRP\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	75.66	71.23	77.40	76.82	73.83	76.82
	(0.3, 0.1)	68.65	74.42	73.31	72.53	75.32	75.65
	(0.4, 0.4)	66.31	65.06	66.88	67.47	69.48	66.30
German (20, 300, 700)	(0.2, 0.2)	71.87	71.10	76.01	74.45	76.47	73.93
	(0.3, 0.1)	61.93	73.53	76.07	66.24	75.49	71.85
	(0.4, 0.4)	68.29	62.83	74.22	70.00	74.28	66.24
Heart (13, 120, 150)	(0.2, 0.2)	69.75	69.75	72.50	72.50	71.25	71.55
	(0.3, 0.1)	67.50	69.35	72.05	71.15	69.95	70.50
	(0.4, 0.4)	61.70	69.80	64.55	66.35	69.25	65.20
Image (18, 1188, 898)	(0.2, 0.2)	78.19	80.56	82.04	81.30	80.19	81.11
	(0.3, 0.1)	72.26	76.30	74.08	73.70	79.26	75.74
	(0.4, 0.4)	67.82	65.37	71.30	71.11	76.11	65.93
Thyroid (5, 65, 150)	(0.2, 0.2)	78.22	77.58	83.83	83.25	64.00	83.45
	(0.3, 0.1)	74.15	76.56	81.05	72.78	59.14	77.73
	(0.4, 0.4)	72.83	71.77	76.05	75.84	63.54	78.78
Votes (5, 168, 267)	(0.2, 0.2)	66.81	69.76	70.00	70.71	58.81	66.91
	(0.3, 0.1)	68.72	73.10	71.67	71.67	67.86	72.14
	(0.4, 0.4)	52.52	56.19	56.90	55.95	54.29	55.71
Sonar (60, 97, 111)	(0.2, 0.2)	72.45	74.40	74.05	73.30	72.55	73.75
	(0.3, 0.1)	71.75	75.85	73.75	70.70	71.80	73.35
	(0.4, 0.4)	59.70	61.45	61.45	61.05	64.75	60.05
Fourclass (2, 307, 555)	(0.2, 0.2)	76.45	75.72	79.69	78.91	67.59	80.12
	(0.3, 0.1)	72.55	74.51	75.88	75.14	67.63	75.56
	(0.4, 0.4)	75.35	74.63	77.82	77.12	65.21	76.54
Svmguide3 (22, 337, 947)	(0.2, 0.2)	84.51	83.26	89.54	85.35	70.47	88.61
	(0.3, 0.1)	80.33	83.26	86.51	81.40	80.93	85.12
	(0.4, 0.4)	77.31	74.19	80.70	80.46	73.72	79.54
Splice (60, 617, 483)	(0.2, 0.2)	91.79	92.64	90.92	91.03	87.13	93.56
	(0.3, 0.1)	90.87	92.99	91.61	91.38	90.23	92.64
	(0.4, 0.4)	85.82	72.41	88.16	91.26	88.28	87.01
Average		72.73	73.65	76.33	75.03	71.96	75.38

Table 33: Means (percentage) of the classification accuracies of all kernel logistic-loss-based methods(kernel width = 2^8)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	70.34	73.64	74.03	75.06	72.92	72.79
	(0.3, 0.1)	71.51	74.09	72.99	74.29	74.48	74.42
	(0.4, 0.4)	61.64	67.14	64.68	73.31	72.01	62.21
German (20, 300, 700)	(0.2, 0.2)	77.59	79.19	78.84	76.94	77.34	79.65
	(0.3, 0.1)	75.34	78.15	78.73	76.13	80.11	77.98
	(0.4, 0.4)	69.33	67.98	70.06	74.39	75.14	70.52
Heart (13, 120, 150)	(0.2, 0.2)	71.65	74.15	74.60	75.05	75.85	73.05
	(0.3, 0.1)	70.40	73.10	72.55	71.35	72.70	73.55
	(0.4, 0.4)	58.95	70.20	61.65	67.85	70.45	61.75
Image (18, 1188, 898)	(0.2, 0.2)	77.45	79.82	81.48	80.00	80.37	81.30
	(0.3, 0.1)	73.93	78.89	76.85	71.30	85.19	80.37
	(0.4, 0.4)	66.34	67.22	70.93	68.70	78.52	69.63
Thyroid (5, 65, 150)	(0.2, 0.2)	87.40	88.54	88.83	80.93	87.61	89.38
	(0.3, 0.1)	83.96	89.79	87.80	69.50	82.66	86.44
	(0.4, 0.4)	75.30	74.50	77.59	72.49	72.03	76.39
Votes (5, 168, 267)	(0.2, 0.2)	69.67	68.57	68.33	72.14	65.24	67.86
	(0.3, 0.1)	59.91	68.33	58.81	64.76	62.62	65.95
	(0.4, 0.4)	62.05	62.38	61.43	61.19	56.67	62.86
Sonar (60, 97, 111)	(0.2, 0.2)	75.65	77.70	77.65	76.15	76.60	78.00
	(0.3, 0.1)	71.10	78.10	72.85	69.75	72.90	75.10
	(0.4, 0.4)	61.45	63.30	63.60	60.25	65.25	63.95
Fourclass (2, 307, 555)	(0.2, 0.2)	76.56	75.56	78.09	79.38	75.91	78.91
	(0.3, 0.1)	74.26	76.34	75.45	75.49	75.80	77.59
	(0.4, 0.4)	68.16	73.04	71.75	74.82	67.67	70.31
Svmguide3 (22, 337, 947)	(0.2, 0.2)	93.35	91.86	92.09	83.72	93.49	94.65
	(0.3, 0.1)	89.63	92.33	90.23	80.47	91.86	93.49
	(0.4, 0.4)	77.54	79.30	82.33	76.98	84.42	81.17
Splice (60, 617, 483)	(0.2, 0.2)	89.84	90.23	90.46	90.80	90.46	91.15
	(0.3, 0.1)	87.54	91.15	90.92	89.43	89.54	90.11
	(0.4, 0.4)	74.32	76.55	81.04	83.68	88.16	80.00
Average		74.07	76.70	76.22	74.88	77.13	76.68

Table 34: Means (percentage) of the classification accuracies of all kernel hinge-loss-based methods(kernel width = 2^8)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	71.96	72.73	73.90	73.64	74.35	74.16
	(0.3, 0.1)	70.92	75.13	73.51	72.73	75.97	73.77
	(0.4, 0.4)	64.62	65.52	66.69	67.53	69.87	59.67
German (20, 300, 700)	(0.2, 0.2)	84.42	82.20	90.29	85.49	83.12	88.27
	(0.3, 0.1)	78.98	84.16	86.36	79.65	80.87	82.26
	(0.4, 0.4)	75.28	67.11	79.30	76.70	77.11	77.57
Heart (13, 120, 150)	(0.2, 0.2)	72.90	71.95	74.35	73.50	75.15	75.10
	(0.3, 0.1)	69.30	71.65	71.25	70.30	72.10	72.55
	(0.4, 0.4)	62.70	71.10	65.35	69.95	70.95	67.25
Image (18, 1188, 898)	(0.2, 0.2)	77.08	78.70	80.19	78.70	82.41	79.63
	(0.3, 0.1)	73.00	77.04	76.11	71.48	81.48	75.56
	(0.4, 0.4)	67.63	67.59	69.82	70.37	80.56	62.41
Thyroid (5, 65, 150)	(0.2, 0.2)	87.62	89.14	90.02	89.64	87.27	89.62
	(0.3, 0.1)	85.85	89.86	88.33	87.44	85.72	87.97
	(0.4, 0.4)	81.09	76.32	82.70	82.70	76.08	83.25
Votes (5, 168, 267)	(0.2, 0.2)	74.43	76.67	77.14	76.19	74.29	76.90
	(0.3, 0.1)	64.90	74.76	66.19	65.24	68.57	70.48
	(0.4, 0.4)	54.19	56.19	56.67	56.19	54.76	55.00
Sonar (60, 97, 111)	(0.2, 0.2)	77.40	79.25	79.60	79.40	78.30	79.10
	(0.3, 0.1)	73.30	79.95	75.25	74.90	76.00	76.30
	(0.4, 0.4)	64.90	67.45	67.40	66.50	67.15	62.95
Fourclass (2, 307, 555)	(0.2, 0.2)	74.97	74.48	77.28	76.50	77.98	78.09
	(0.3, 0.1)	72.94	75.25	75.49	74.79	75.99	75.33
	(0.4, 0.4)	69.60	74.20	70.86	72.37	67.47	71.99
Svmguide3 (22, 337, 947)	(0.2, 0.2)	91.49	90.70	91.86	92.09	92.33	93.49
	(0.3, 0.1)	88.93	91.86	88.60	89.07	91.63	93.02
	(0.4, 0.4)	84.05	73.72	86.05	79.54	86.74	86.05
Splice (60, 617, 483)	(0.2, 0.2)	90.87	92.87	92.76	92.99	91.72	92.64
	(0.3, 0.1)	88.46	91.26	90.69	89.89	90.81	90.69
	(0.4, 0.4)	77.77	74.94	79.43	85.63	89.20	81.72
Average		75.72	77.12	78.11	77.37	78.53	77.76

Table 35: Means (percentage) of the classification accuracies of all linear logistic-loss-based methods(kernel width = 2^8)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{log}	$IW\ell_{log}$	$RD\ell_{log}$	$mCRF\ell_{log}$	$kRPD\ell_{log}$	$cRPD\ell_{log}$
diabetes (8, 268, 500)	(0.2, 0.2)	73.65	75.00	75.65	75.39	75.84	75.71
	(0.3, 0.1)	71.70	75.78	72.92	72.99	75.71	77.01
	(0.4, 0.4)	70.60	68.31	73.38	74.87	75.07	72.86
German (20, 300, 700)	(0.2, 0.2)	74.24	78.84	76.94	77.22	78.67	74.91
	(0.3, 0.1)	75.40	77.34	76.76	76.18	77.22	77.17
	(0.4, 0.4)	70.54	65.03	74.80	73.59	76.36	74.97
Heart (13, 120, 150)	(0.2, 0.2)	72.45	74.10	74.70	73.95	74.35	72.65
	(0.3, 0.1)	70.65	73.10	72.35	70.40	73.15	73.15
	(0.4, 0.4)	63.00	70.00	66.40	69.05	69.35	66.10
Image (18, 1188, 898)	(0.2, 0.2)	76.15	78.89	80.56	77.41	83.15	77.04
	(0.3, 0.1)	75.96	78.89	80.93	77.41	82.04	78.33
	(0.4, 0.4)	64.85	64.81	68.71	69.26	75.56	67.78
Thyroid (5, 65, 150)	(0.2, 0.2)	80.03	81.82	82.61	81.63	77.82	82.11
	(0.3, 0.1)	70.99	81.99	76.92	70.41	73.30	75.98
	(0.4, 0.4)	72.86	72.92	75.65	74.28	68.37	76.05
Votes (5, 168, 267)	(0.2, 0.2)	68.72	70.95	74.52	69.76	68.81	72.62
	(0.3, 0.1)	69.43	74.53	70.95	70.48	71.67	77.38
	(0.4, 0.4)	55.62	56.67	59.28	56.67	60.24	62.62
Sonar (60, 97, 111)	(0.2, 0.2)	70.65	72.75	72.65	72.20	72.80	72.30
	(0.3, 0.1)	71.35	75.75	73.50	71.90	74.20	72.15
	(0.4, 0.4)	59.60	61.05	61.20	62.65	61.80	60.75
Fourclass (2, 307, 555)	(0.2, 0.2)	78.62	77.67	79.49	78.99	75.96	80.55
	(0.3, 0.1)	75.78	77.90	77.24	76.42	77.36	78.17
	(0.4, 0.4)	72.32	75.26	74.13	76.93	70.55	72.73
Svmguide3 (22, 337, 947)	(0.2, 0.2)	85.21	84.65	88.60	84.42	88.14	88.14
	(0.3, 0.1)	75.68	79.07	79.54	76.28	80.00	82.56
	(0.4, 0.4)	69.16	72.33	79.53	71.86	78.84	70.93
Splice (60, 617, 483)	(0.2, 0.2)	91.33	92.64	93.33	93.22	92.99	92.64
	(0.3, 0.1)	89.72	92.07	92.07	90.69	91.27	91.95
	(0.4, 0.4)	75.93	74.83	80.69	86.78	88.16	77.01
Average		73.07	75.16	76.20	75.11	76.29	75.81

Table 36: Means (percentage) of the classification accuracies of all linear hinge-loss-based methods(kernel width = 2^8)

Benchmark data (m, n_+, n_-)	Noise rate ($\rho+1, \rho-1$)	ℓ_{hinge}	$IW\ell_{hinge}$	$RD\ell_{hinge}$	$mCRF\ell_{hinge}$	$kRRP\ell_{hinge}$	$cRRP\ell_{hinge}$
diabetes (8, 268, 500)	(0.2, 0.2)	74.43	72.99	76.04	76.43	73.38	75.97
	(0.3, 0.1)	65.73	72.99	68.70	70.33	73.25	74.22
	(0.4, 0.4)	68.39	64.09	71.56	70.39	70.52	70.13
German (20, 300, 700)	(0.2, 0.2)	70.66	69.83	74.51	73.81	73.53	73.06
	(0.3, 0.1)	62.91	75.03	77.11	67.86	75.66	75.09
	(0.4, 0.4)	68.58	64.45	70.06	69.71	74.91	69.65
Heart (13, 120, 150)	(0.2, 0.2)	70.10	69.25	72.45	72.05	71.25	71.90
	(0.3, 0.1)	68.10	70.10	70.35	71.05	71.80	70.95
	(0.4, 0.4)	63.20	70.45	65.15	67.15	68.95	64.40
Image (18, 1188, 898)	(0.2, 0.2)	72.26	73.89	76.67	75.74	81.11	74.26
	(0.3, 0.1)	75.59	79.81	76.67	74.26	79.63	78.70
	(0.4, 0.4)	67.44	67.78	67.78	69.63	77.59	66.48
Thyroid (5, 65, 150)	(0.2, 0.2)	77.57	76.20	83.73	83.09	61.20	83.92
	(0.3, 0.1)	74.44	76.80	81.65	75.46	59.35	78.92
	(0.4, 0.4)	73.14	68.18	76.13	75.07	61.41	77.30
Votes (5, 168, 267)	(0.2, 0.2)	67.53	69.53	73.33	71.19	69.76	70.95
	(0.3, 0.1)	68.48	70.95	70.48	68.57	65.48	71.91
	(0.4, 0.4)	60.86	60.00	61.91	61.90	59.05	62.38
Sonar (60, 97, 111)	(0.2, 0.2)	73.50	75.35	75.60	75.60	71.85	74.25
	(0.3, 0.1)	71.90	76.20	73.65	70.20	73.20	73.75
	(0.4, 0.4)	58.75	60.20	60.25	61.45	64.55	62.10
Fourclass (2, 307, 555)	(0.2, 0.2)	75.90	75.53	80.16	79.07	63.31	79.92
	(0.3, 0.1)	72.75	74.75	76.30	75.68	66.30	75.56
	(0.4, 0.4)	71.77	73.54	75.64	75.64	60.23	74.09
Svmguide3 (22, 337, 947)	(0.2, 0.2)	83.12	82.33	87.21	84.65	75.81	86.75
	(0.3, 0.1)	77.30	80.00	82.56	79.54	77.44	83.26
	(0.4, 0.4)	77.54	73.26	85.12	79.07	77.44	80.93
Splice (60, 617, 483)	(0.2, 0.2)	90.41	92.76	92.18	91.49	89.54	93.33
	(0.3, 0.1)	90.18	93.22	90.69	90.35	89.43	92.30
	(0.4, 0.4)	86.04	76.90	83.79	90.11	85.98	85.17
Average		72.62	73.54	75.91	74.88	72.10	75.72