Fertility 110	5.99(5) 2.39(3) 3.94(5) 1.27(5) 3.98(5) 9.18(5) 3.28(5) (4.78)	109.84(4) 66.78(4) 113.24(4) 63.88(4) 90.78(4) 48.19(4) 65.64(4) 73.97(4) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	63.88(3) 90.78(3) 48.16(3) 65.62(3) 73.91(3) (3.22) 107.42(3)	16.83(1) 109.21(2) 66.39(2) 112.10(2) 63.81(2) 90.53(2) 46.93(2) 64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 97.15(1) 97.15(1) 97.18(2) 61.55(2)	17.55(2) 102.81(1) 64.65(1) 100.93(1) 60.21(1) 85.38(1) 45.05(1) 64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1) 59.10(1)
flow 66 forest 112 Ridge servo 63 Indige servo 63 Indige servo 64 Indige servo 65 Indige servo 67 Indige servo 67 Indige servo 106 Indige servo 106	5.99(5) 2.39(3) 3.94(5) 1.27(5) 3.98(5) 0.18(5) 3.28(5) (4.78) 6.49(5) 0.46(5) 3.60(5) 2.45(5) 6.30(5) 1.54(5) 6.66(5)	66.78(4) 113.24(4) 63.88(4) 90.78(4) 48.19(4) 65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	66.77(3) 113.24(5) 63.88(3) 90.78(3) 48.16(3) 65.62(3) 73.91(3) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	66.39(2) 112.10(2) 63.81(2) 90.53(2) 46.93(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 97.53(1) 20.93(2) 97.18(2)	64.65(1) 100.93(1) 60.21(1) 85.38(1) 45.05(1) 64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
Ridge	2.39(3) 3.94(5) 1.27(5) 3.98(5) 0.18(5) 3.28(5) (4.78) 5.49(5) 0.46(5) 0.46(5) 0.36(0) 0.45(5) 0.45(5) 0.45(5) 0.45(5) 0.45(5) 0.45(5)	113.24(4) 63.88(4) 90.78(4) 48.19(4) 65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	113.24(5) 63.88(3) 90.78(3) 48.16(3) 65.62(3) 73.91(3) (3.22) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	112.10(2) 63.81(2) 90.53(2) 46.93(2) 64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 97.53(1) 20.93(2) 97.18(2)	100.93(1) 60.21(1) 85.38(1) 45.05(1) 64.95(1) 73.08(1) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
Ridge servo 63	3.94(5) 3.98(5) 3.98(5) 3.18(5) 3.28(5) (4.78) 5.49(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5) 3.60(5)	63.88(4) 90.78(4) 48.19(4) 65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	63.88(3) 90.78(3) 48.16(3) 65.62(3) 73.91(3) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	63.81(2) 90.53(2) 46.93(2) 64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	60.21(1) 85.38(1) 45.05(1) 64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
Slump 91 traffic 48 wine.white 78	27(5) 3.98(5) 0.18(5) 3.28(5) (4.78) 5.49(5) 0.46(5) 3.60(5) 2.45(5) 6.30(5) 1.54(5) 5.66(5)	90.78(4) 48.19(4) 65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	90.78(3) 48.16(3) 65.62(3) 73.91(3) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	90.53(2) 46.93(2) 64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	85.38(1) 45.05(1) 64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
traffic	3.98(5) 3.18(5) 3.28(5) (4.78) 3.49(5) 3.46(5) 3.60(5) 2.45(5) 3.30(5) 4.54(5) 3.66(5)	48.19(4) 65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	48.16(3) 65.62(3) 73.91(3) (3.22) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	46.93(2) 64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	45.05(1) 64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
wine_red	0.18(5) 3.28(5) (4.78) 5.49(5) 0.46(5) 3.60(5) 2.45(5) 5.30(5) 1.54(5) 5.66(5)	65.64(4) 73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	65.62(3) 73.91(3) (3.22) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	64.96(2) 73.09(2) (1.89) 81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	64.95(1) 73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
wine_white 78	3.28(5) (4.78) 5.49(5) 0.46(5) 3.60(5) 2.45(5) 5.30(5) 1.54(5) 5.66(5)	73.97(4) (4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	73.91(3) (3.22) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	73.09(2) (1.89) 81.05(2) 101.64 (1) 91.11 (1) 97.53 (1) 20.93(2) 97.18(2)	73.08(1) (1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
Avg. Rank	(4.78) 5.49(5) 5.46(5) 8.60(5) 2.45(5) 5.30(5) 1.54(5) 5.66(5)	(4.00) 113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	(3.22) 107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	(1.89) 81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	(1.11) 74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
automobile 115 fertility 200 fertility 200 forest 102 SVR servo 106 slump 114 traffic 105 wine_red 124 wine_white 9 Avg. Rank	5.49(5) 0.46(5) 3.60(5) 2.45(5) 5.30(5) 1.54(5) 5.66(5)	113.25(4) 120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	107.42(3) 112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	81.05(2) 101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	74.02(1) 108.24(2) 91.22(2) 100.47(4) 20.63(1) 92.90(1)
Rettility 200	0.46(5) 3.60(5) 2.45(5) 5.30(5) 4.54(5) 5.66(5)	120.06(4) 101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	112.07(3) 101.17(3) 99.71(2) 42.38(3) 108.15(3)	101.64(1) 91.11(1) 97.53(1) 20.93(2) 97.18(2)	108.24(2) 91.22(2) 100.47(4) 20.63 (1) 92.90 (1)
SVR 103 107 108 109	3.60(5) 2.45(5) 3.30(5) 4.54(5) 5.66(5)	101.26(4) 99.75(3) 58.51(4) 108.57(4) 83.47(4)	101.17(3) 99.71(2) 42.38(3) 108.15(3)	91.11(1) 97.53(1) 20.93(2) 97.18(2)	91.22(2) 100.47(4) 20.63 (1) 92.90 (1)
SVR Servo 100	2.45(5) 5.30(5) 1.54(5) 5.66(5)	99.75(3) 58.51(4) 108.57(4) 83.47(4)	99.71(2) 42.38(3) 108.15(3)	97.53(1) 20.93(2) 97.18(2)	100.47(4) 20.63(1) 92.90(1)
SVR servo 106 slump 114 traffic 124 wine_red 124 wine,white 99 Avg. Rank automobile 46 fertility 112	5.30(5) 1.54(5) 5.66(5)	58.51(4) 108.57(4) 83.47(4)	42.38(3) 108.15(3)	20.93(2) 97.18(2)	20.63(1) 92.90(1)
slump 114 traffic 105 wine_red 124 wine_white 99 Avg. Rank automobile 40 fertility 112	1.54(5) 5.66(5)	108.57(4) 83.47(4)	108.15(3)	97.18(2)	92.90(1)
traffic 105 wine_red 124 wine_white 99	6.66(5)	83.47(4)			
wine_red 124 wine_white 99 Avg. Rank automobile 40 fertility 112			78.82(3)	61.55(2)	50 10(1)
Avg. Rank automobile 40 fertility 112	1.07(5)	01 50(4)			35.10(1)
Avg. Rank automobile 40 fertility 112		81.50(4)	80.01(3)	70.49(2)	69.80(1)
automobile 40 fertility 112	0.83(5)	75.45(4)	75.00(3)	68.64(2)	68.23(1)
fertility 112	(5.00)	(3.89)	(2.89)	(1.67)	(1.56)
	0.17(5)	28.17(4)	26.01(3)	17.82(1)	17.90(2)
	2.53(5)	89.47(1)	90.70(2)	90.71(3)	94.74(4)
flow 81	.07(5)	62.57(3)	65.72(4)	61.13(1)	62.31(2)
forest 273	3.64(5)	116.97(4)	113.21(3)	107.08(1)	107.96(2)
RF servo 98	3.69(5)	52.44(4)	45.12(3)	16.82(1)	17.41(2)
slump 89	0.40(5)	78.72(4)	76.61(3)	76.21(2)	75.15(1)
traffic 90	0.79(5)	56.13(4)	53.78(3)	45.97(1)	50.30(2)
wine_red 80	0.48(5)	74.05(4)	72.51(3)	60.24(2)	60.06(1)
wine_white 87	.47(5)	78.46(4)	77.84(3)	67.58(2)	66.58(1)
Avg. Rank	(5.00)	(3.56)	(3.00)	(1.56)	(1.89)
Mean Rank	(0.00)				

Table 4: The 3-fold cross validation relative mean squared error and Friedman ranks for all the datasets when Best, BEM, IEW, Caruana, BST(ICM) and BST(ICM) Reg, taking into account some baseline systems (Ridge, SVR and RF) and the PSO sampling strategy.