HPO	MLS	OLS	GEM	FSR(*)	PCR(AICc)	PLS(AICc)	BST(AICc)	RBST(AIC)	BST(ICM)	RBST(ICM)
	abalone	4.68e+4(9)	47.31(6)	47.26(3)	48.20(8)	47.26(5)	47.26(3)	47.26(3)	47.26(1)	47.34(7)
Ridge	airfoil_self_noise	1.55e+4(8)	48.86(5)	48.86(3)	3.29e+4(9)	49.11(7)	48.86(3)	48.86(3)	48.87(6)	48.86(1)
	auto_mpg	1.08e+3(9)	18.44(5)	18.42(3)	941.33(8)	18.84(7)	18.42(3)	18.42(3)	18.42(1)	18.48(6)
	automobile	3.59e+7(9)	17.42(1)	19.69(6)	407.18(8)	17.44(2)	19.69(6)	18.74(5)	18.55(4)	17.46(3)
	concrete_data	7.07e+15(9)	39.17(6)	39.14(4)	39.57(8)	39.06(1)	39.14(4)	39.14(4)	39.50(7)	39.14(2)
	crime	5.69e+21(9)	35.36(6)	34.71(2)	2.35e+19(7)	2.80e+20(8)	34.71(2)	34.71(2)	35.10(4)	35.15(5)
	fertility	2.12e+3(9)	109.02(8)	106.37(5)	106.48(7)	105.77(3)	106.37(5)	106.37(5)	105.77(2)	104.48(1)
	flow	1.17e+7(9)	66.03(6)	64.26(3)	631.11(8)	70.62(7)	64.26(3)	64.26(3)	64.58(5)	63.94(1)
	forest	4.18e+3(9)	110.12(8)	102.12(4)	102.24(6)	101.44(1)	102.12(4)	102.12(4)	102.28(7)	102.00(2)
	qsar	80.55(9)	43.16(7)	43.08(4)	43.29(8)	43.07(1)	43.08(4)	43.08(4)	43.08(6)	43.08(2)
	servo	294.63(9)	63.52(8)	61.49(5)	61.45(3)	60.02(1)	61.49(5)	61.49(5)	60.26(2)	61.63(7)
	slump	3.29e + 8(9)	90.11(6)	86.94(3)	101.58(8)	90.66(7)	86.94(3)	86.94(3)	89.46(5)	86.65(1)
	traffic	3.34e + 7(9)	46.80(7)	44.92(5)	57.51(8)	43.38(3)	42.79(1)	44.92(5)	43.15(2)	44.89(4)
	wine_red	1.72e + 7(9)	65.00 (1)	65.09(5)	69.78(8)	65.56(7)	65.09(5)	65.09(5)	65.06(2)	65.09(3)
	wine_white	6.92e + 3(9)	72.67(5)	72.58(3)	77.26(8)	73.46(7)	72.58(3)	72.58(3)	72.53(1)	72.68(6)
Avg. Rank		(8.93)	(5.67)	(3.93)	(7.47)	(4.47)	(3.63)	(3.83)	(3.67)	(3.40)
SVR	abalone	81.96(9)	43.90(6)	43.03(4)	50.84(8)	43.91(7)	43.03(4)	43.03(4)	43.02(2)	42.95(1)
	airfoil_self_noise	4.91e + 3(7)	9.17e + 6(9)	75.59(5)	3.28e+4(8)	72.78(3)	75.59(5)	75.59(5)	72.06(2)	70.32(1)
	auto_mpg		1.13e+6(9)	19.96(3)	1.86e + 3(7)	25.52(6)	19.72(2)	19.96(3)	20.02(5)	19.36(1)
	automobile	2.34e + 5(9)	41.49(7)	21.27(3)	424.52(8)	19.34 (1)	21.27(3)	21.27(3)	22.79(6)	22.09(5)
	concrete_data	27.95(5)	87.80(8)	39.98(7)	552.91(9)	30.24(6)	26.97(4)	25.22(1)	26.57(3)	26.21(2)
	crime		3.16e+4(9)	36.73(4)	180.44(8)	41.17(7)	36.73(4)	36.73(4)	35.38(2)	35.29(1)
	fertility	191.43(9)		102.54(2)	113.79(8)	112.28(7)	102.54(2)	102.54(2)	104.46(6)	103.55(4)
	flow	4.56e+6(9)	69.17 (1)	71.30(2)	927.11(8)	106.08(7)	78.77(5)	71.30(2)	74.10(4)	
	forest	207.68(9)	120.89(8)	111.18(3)	103.94(1)	117.17(7)	111.18(3)	111.18(3)		
	qsar	180.92(9)	37.08(3)	38.02(6)	44.88(8)	36.48(1)	38.02(6)	38.02(6)	37.14(4)	
	servo	97.79(9)	16.26(2)	16.73(4)	20.01(8)	17.39(6)	16.73(4)	18.05(7)	16.43(3)	15.76(1)
	slump	8.33e+14(9)	80.45(1)	114.93(5)	536.60(8)	96.67(4)	116.36(6)	85.54(2)	131.91(7)	86.06(3)
	traffic	510.13(9)	48.85(3)	58.21(6)	407.40(8)	48.71(2)	58.21(6)	57.44(5)	53.08(4)	46.45(1)
	wine_red	59.01(3)	60.38(5)	67.35(7)	3.18e + 3(9)	60.34(4)	62.81(6)	67.35(7)	58.91(2)	56.55 (1)
	wine_white	289.40(8)	99.81(6)	70.46(5)	3.24e + 3(9)	110.85(7)	57.57(3)	58.14(4)	56.97(2)	56.26 (1)
Avg. Rank		(7.87)	(5.47)	(4.57)	(7.67)	(5.00)	(4.27)	(3.97)	(3.87)	(2.33)
RFR	abalone	45.11(3)	44.66 (1)	45.35(6)	60.28(9)	46.27(8)	45.35(6)	45.35(6)	45.32(4)	44.77(2)
	airfoil_self_noise	12.69(1)	14.87(8)	14.04(6)	3.29e+4(9)	13.44(3)	14.04(6)	14.04(6)	13.31(2)	
	auto_mpg	17.82(8)	14.44(2)	15.48(6)	902.37(9)	14.30(1)	15.48(6)	15.48(6)	15.42(4)	14.54(3)
	automobile	26.03(8)	17.61(2)	18.08(5)	405.11(9)	25.13(7)	18.08(5)	17.72(3)	18.04(4)	15.32(1)
	concrete_data	11.90(1)	16.57(8)	12.48(6)	468.16(9)	12.29(3)	12.48(6)	12.48(6)	12.40(4)	12.12(2)
	crime	36.31(5)	35.14(1)	36.38(7)	35.85(3)	36.89(9)	36.38(7)	36.38(7)	36.21(4)	
	fertility	158.91(9)	92.17(3)	94.35(5)	130.14(8)	104.59(7)	91.70(2)	94.35(5)	89.63(1)	93.21(4)
	flow	118.33(8)	62.84(5)	62.59(3)	878.26(9)	85.09(7)	62.59(3)	62.59(3)	62.59 (1)	63.24(6)
	forest	200.95(9)	126.98(8)	116.29(5)	104.95(1)	116.67(7)	116.29(5)	116.29(5)	112.68(3)	110.09(2)
	qsar	38.51(7)	37.34(2)	38.09(5)	45.82(9)	38.68(8)	38.09(5)	38.09(5)	38.03(3)	37.23(1)
	servo	24.61(7)	19.47(1)	19.71(2)	33.52(9)	27.01(8)	19.71(2)	22.04(6)	19.98(4)	21.01(5)
	slump	125.29(8)	64.29(5)	63.94(2)	527.24(9)	78.90(7)	63.94(2)	63.94(2)	63.97(4)	68.08(6)
	traffic	49.37(3)	44.77(1)	50.82(5)	235.18(9)	51.91(7)	50.82(5)	50.82(5)	54.18(8)	46.59(2)
	wine_red	59.08(4)	57.15(1)	60.08(7)	73.18(9)	59.51(5)	60.08(7)	60.08(7)	58.90(3)	57.56(2)
4 D '	wine_white	58.59(1)	60.13(7)	60.02(5)	72.80(9)	60.62(8)	60.02(5)	60.02(5)	59.53(3)	59.40(2)
Avg. Rank		(5.47)	(3.67)	(5.10)	(8.00)	(6.33)	(4.87)	(5.17)	(3.47)	(2.93)
Mean Rank		(7.42)	(4.93)	(4.53)	(7.71)	(5.27)	(4.26)	(4.32)	(3.67)	(2.89)

Table 5: The 3-fold cross validation relative mean squared error and Friedman ranks for all the datasets when OLS and GEM and the best stop criteria among AIC, AICc, BIC, HQIC, GMDL for FSR, PCR, PLS, BST and RBST and the novel stop criterion ICM for BST and RBST, taking into account some baseline systems (Ridge, SVR and RFR) and the HB sampling strategy.