Airfoil.self_noise	MLS	Dataset	BST(AIC)	BST(AICc)	BST(BIC)	BST(HQIC) E	ST(GMDL)
automobile   18.42(3)   18.42(3)   18.42(3)   18.42(3)   18.42(3)   18.42(3)   18.42(3)   18.42(3)   19.69(3)   39.14(3)   39.14(3)   39.14(3)   39.14(3)   39.14(3)   39.14(3)   39.14(3)   34.71(3	Ridge	abalone	47.26(3)	47.26(3)	47.26(3)	47.26(3)	47.26(3)
automobile   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   19.69(3)   39.14(3)   30.16(3)   30.67(3		airfoil_self_noise	48.86(3)	48.86(3)	48.86(3)	48.86(3)	48.86(3)
Concrete.data   39,14(3)   39,14(3)   39,14(3)   39,14(3)   39,14(3)   39,14(3)   39,14(3)   34,71(3)   34,7		auto_mpg	18.42(3)	18.42(3)	18.42(3)	18.42(3)	18.42(3)
crime		automobile	19.69(3)	19.69(3)	19.69(3)	19.69(3)	19.69(3)
Ridge   flow   64.26(3)   64.26		concrete_data	39.14(3)	39.14(3)	39.14(3)	39.14(3)	39.14(3)
Ridge		crime	34.71(3)	34.71(3)	34.71(3)	34.71(3)	34.71(3)
forest   102,12(3)   102,12(3)   102,12(3)   102,12(3)   102,12(3)   103,12(		fertility	106.37(3)	106.37(3)	106.37(3)	106.37(3)	106.37(3)
qsar 43.08(3) 43.08(3) 43.08(3) 43.08(3) 43.08(3) 43.08(3) 43.08(3) 43.08(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 68.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 49.9(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.75(2) 44.92(4) 42.92(2) 44.92(4) 42.75(2) 44.92(4) 42.92(3) 42.75(2) 44.92(4) 42.92(4)		flow	64.26(3)	64.26(3)	64.26(3)	64.26(3)	64.26(3)
servo 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 61.49(3) 66.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 86.94(3) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.79(2) 44.92(4) 42.75(8) 72.58(3) 65.93(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 75.59(3) 75.59(3) 75.59(3) 75.59(3) <t< td=""><td>forest</td><td>102.12(3)</td><td>102.12(3)</td><td>102.12(3)</td><td>102.12(3)</td><td>102.12(3)</td></t<>		forest	102.12(3)	102.12(3)	102.12(3)	102.12(3)	102.12(3)
Slump		qsar	43.08(3)	43.08(3)	43.08(3)	43.08(3)	43.08(3)
Slump		servo	61.49(3)	61.49(3)	61.49(3)	61.49(3)	61.49(3)
traffic wine.red wine.white wine.red wine.white wine.red wine.white wine.red wine.white							86.94(3)
wine_red 65.09(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 65.09(3) 72.58(3) 73.30(3) 43.03(3)							44.92(4)
wine,white   72.88(3)   72.58(3)   72.58(3)   72.58(3)   72.58(3)   3.10    (2.93)   (2.93)   (3.10)   (2.93)   (3.10)   (2.93)   (3.10)   (2.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.10)   (3.93)   (3.94)		wine red					65.09(3)
Avg. Rank							
abalone	Avg. Rar						(3.10)
airfoil.self_noise							
auto.mpg	SVR						
automobile   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   21.27(3)   22.27(3)   22.27(3)   23.9.8(5							
concrete_data							
crime 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 36,73(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 102,54(3) 11,18(3) 111,18(3)							
SVR   flow   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1)   78.77(4)   71.30(1							
SVR flow 78,77(4) 78,77(4) 71,30(1) 78,77(4) 71,30(1)   forest 111,18(3) 11,118(3) 11,118(3) 11,118(3) 11,118(3) 11,118(3) 11,118(3) 11,118(3) 16,73(3)							
forest   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   111.18/3   138.02/3   38							
qsar   38.02(3)							
servo 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 16,73(3) 116,36(3) 116,36(3) 116,36(3) 114,03(3) 114,03(3) 114,03(3) 114,03(3) 114,03(3) 114,03(3) 16,73(3) 88,21(3) 58,21(3) 58,21(3) 58,21(3) 58,21(3) 58,21(3) 67,35(4) 64,77(3) 67,35(4) 67,35(4) 64,77(3) 67,35(4) 67,35(3) 67,35(4) 67,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3) 45,35(3)							
Slump							
traffic							
wine_red wine_wine 62.81(1) 57.57(2) 62.81(1) 57.57(2) 67.35(4) 57.57(2) 64.77(3) 57.57(2) 67.35(4) 70.40(2)   Avg. Rank (2.83) (2.73) (2.33) (2.33) (3.10) (3.13) (3.01) (3.01) (3.02) (3.02)   abalone 45.35(3) (3.45,35(3) 45.35(3) (45.35(3) 45.35(3) (45.48(3) 15.48(3) (45.48(3) 12.48(3) (45.48(3) 12.48(3) (45.48(3							
wine,white 57.57(2) 57.57(2) 57.57(2) 57.57(2) 75.75(2) 70.46(5)   Avg. Rank (2.83) (2.73) (3.13) (3.10) (3.20)   abalone 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 14.04(3)							
Avg. Rank (2.83) (2.73) (3.13) (3.10) (3.26)   abalone 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 45.35(3) 14.04(3) 14.04(3) 14.04(3) 14.04(3) 14.04(3) 14.04(3) 14.04(3) 11.04(3) 11.04(3) 15.48(3) 15.48(3) 15.48(3) 15.48(3) 15.48(3) 15.48(3) 12.48(3) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
abalone	Ava Rar						
airfoil.self_noise	nvg. mai						
auto_mpg	RFR						
Automobile   18.08(3)   18.08(3)   18.08(3)   18.08(3)   18.08(3)   18.08(3)   18.08(3)   18.08(3)   12.48(3							
concrete.data   12.48(3)   12.48(3)   12.48(3)   12.48(3)   30.2							
crime   36.38(3)   3							
Fertility   91.98 2  91.70 1   94.35 4   91.98 2   94.37 4   91.98 2   94.37 4   91.98 2   94.37 4   91.98 2   94.37 4   91.98 2   94.37 4   94.							
RFR flow 62.59(3) 62.59(3) 62.59(3) 62.59(3) 62.59(3) 62.59(3) 62.59(3) 62.59(3) 16.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 116.29(3) 38.09(3)							
forest 116.29(3)							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
servo 19.71(3) 19.71(3) 19.71(3) 19.71(3) 19.71(3) 19.71(3) 19.71(3) 19.71(3) 19.71(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 60.98(3) 60.08(3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
slump 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 63.94(3) 50.82(3) 50.82(3) 50.82(3) 50.82(3) 50.82(3) 50.82(3) 60.82(3) 60.08(3) 60.08(3) 60.08(3) 60.08(3) 60.08(3) 60.02(3) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
traffic 50.82(3) 50.8							
wine_red 60.08(3) 60.08(3) 60.08(3) 60.08(3) 60.08(3) 60.02(3)							
wine_white 60.02(3) 60.02(3) 60.02(3) 60.02(3) 60.02(3) 60.02(3)   Avg. Rank (2.97) (2.87) (3.10) (2.97) (3.10)							
Avg. Rank (2.97) (2.87) (3.10) (2.97) (3.10							
	4 D						
Mean Kank $(2.91)$ $(2.84)$ $(3.11)$ $(3.00)$ $(3.13)$							
( - , ( - , ( - , ( - , ( - , )	(3.13)						

Table 24: The 3-fold cross validation relative mean squared error and Friedman ranks for all the datasets when BST, using several stop criteria (AIC, AICc, BIC, HQIC and GMDL), taking into account some baseline systems (Ridge, SVR and RFR) and the HB sampling strategy.