kNNR	Best	LS	LSid	RSW	RSWid	RSWH	RSWHid
automobile	23.85(3)	23.97(4)	**21.33**(1)	25.76(5)	26.00(6)	27.21(7)	23.04(2)
fertility	112.60(5)	**100.38**(1)	117.25(7)	110.46(4)	116.35(6)	106.84(2)	108.23(3)
flow	90.16(5)	98.01(7)	74.38(3)	89.06(4)	67.93(2)	97.01(6)	**61.32**(1)
forest	101.94(7)	**98.68**(1)	101.40(6)	99.82(4)	99.58(3)	99.42(2)	100.65(5)
servo	50.35(7)	43.11(2)	**37.48**(1)	46.21(4)	46.98(5)	44.49(3)	48.55(6)
slump	95.58(4)	105.58(7)	103.49(5)	94.28(3)	91.99(2)	104.05(6)	**89.64**(1)
traffic	35.28(4)	**32.48**(1)	42.40(7)	34.31(2)	34.54(3)	35.98(5)	38.16(6)
wine_red	84.81(7)	79.89(4)	**62.57**(1)	84.52(6)	79.17(3)	80.84(5)	65.19(2)
wine_white	84.91(7)	77.94(3)	**65.13**(1)	84.67(6)	84.11(5)	80.04(4)	65.74(2)
Avg. Rank	(5.44)	(3.33)	(3.56)	(4.22)	(3.89)	(4.44)	(**3.11**)
Ridge	Best	LS	LSid	RSW	RSWid	RSWH	RSWHid
automobile	19.51(3)	2.72E+12(7)	9.53E+11(6)	19.57(4)	19.62(5)	**18.64**(1)	18.77(2)
fertility	102.34(2)	1.91E+03(6)	7.38E+03(7)	102.95(3)	106.90(4)	**97.05**(1)	106.99(5)
flow	65.66(5)	6.86E+08(7)	2.49E+07(6)	65.25(3)	65.31(4)	64.61(2)	**63.24**(1)
forest	99.01(4)	2.33E+03(7)	766.84(6)	**97.88**(1)	98.14(2)	98.26(3)	99.69(5)
servo	**62.32**(1)	9.30E+06(7)	5.11E+04(6)	62.68(3)	62.38(2)	63.54(5)	63.05(4)
slump	86.55(5)	7.14E+09(7)	2.00E+07(6)	85.69(4)	84.37(2)	85.59(3)	**78.64**(1)
traffic	39.51(4)	4.95E+10(7)	3.04E+09(6)	39.47(3)	39.65(5)	36.84(2)	**36.01**(1)
wine_red	64.91(3)	1.80E+08(7)	1.27E+04(6)	64.91(2)	**64.90**(1)	64.96(4)	64.99(5)
wine_white	72.66(3)	7.49E+05(7)	3.47E+04(6)	72.66(4)	72.65(2)	**72.64**(1)	72.66(5)
Avg. Rank	(3.33)	(6.89)	(6.11)	(3.00)	(3.00)	(**2.44**)	(3.22)
Lasso	Best	LS	LSid	RSW	RSWid	RSWH	RSWHid
automobile	18.45(4)	35.87(7)	24.49(6)	18.31(3)	18.31(2)	**18.19**(1)	19.45(5)
fertility	**95.85**(1)	206.10(7)	136.56(6)	96.09(2)	99.02(4)	96.66(3)	103.80(5)
flow	66.81(5)	74.92(6)	75.57(7)	66.48(3)	66.50(4)	65.59(2)	**62.85**(1)
forest	100.09(5)	105.79(6)	112.39(7)	98.79(3)	**98.11**(1)	98.34(2)	99.47(4)
servo	63.62(6)	**51.57**(1)	53.28(2)	63.23(3)	63.34(4)	63.77(7)	63.52(5)
slump	87.59(4)	91.71(6)	99.15(7)	86.73(3)	88.06(5)	86.05(2)	**81.32**(1)
traffic	38.64(3)	1.09E+07(6)	3.09E+08(7)	39.13(5)	38.94(4)	**37.39**(1)	37.58(2)
wine_red	69.24(5)	105.45(7)	72.29(6)	69.23(4)	69.00(3)	68.94(2)	**65.74**(1)
wine_white	78.33(6)	78.21(4)	**73.20**(1)	78.33(7)	77.18(3)	78.31(5)	73.63(2)
Avg. Rank	(4.33)	(5.56)	(5.44)	(3.67)	(3.33)	(**2.78**)	(2.89)
SVR	Best	LS	LSid	RSW	RSWid	RSWH	RSWHid
automobile	20.98(5)	1.54E+11(6)	4.06E+11(7)	20.94(4)	20.86(2)	20.94(3)	**20.31**(1)
fertility	97.80(4)	635.89(6)	2.67E+03(7)	96.30(2)	**95.76**(1)	96.80(3)	105.35(5)
flow	72.96(5)	4.38E+09(7)	2.69E+09(6)	68.69(3)	67.77(2)	72.86(4)	**63.65**(1)
forest	**100.85**(1)	2536.09(6)	5.81E+03(7)	103.60(5)	101.86(4)	101.20(3)	101.00(2)
servo	22.64(5)	697.48(6)	8.24E+04(7)	19.14(2)	19.57(3)	**19.13**(1)	20.16(4)
slump	**71.52**(1)	1.14E+12(6)	1.40E+12(7)	83.34(3)	82.85(2)	164.42(5)	89.02(4)
traffic	36.96(3)	1.65E+07(7)	2.96E+06(6)	**36.01**(1)	36.37(2)	38.02(4)	45.25(5)
wine_red	65.92(6)	64.41(3)	85.72(7)	65.83(4)	65.85(5)	57.33(2)	**57.16**(1)
wine_white	72.60(7)	55.12(2)	**54.97**(1)	72.28(5)	72.45(6)	57.68(4)	57.42(3)
Avg. Rank	(4.11)	(5.44)	(6.11)	(3.22)	(3.00)	(3.22)	(**2.89**)

Table 1: The 3-fold cross validation relative mean squared error and Friedman ranks for all datasets when the best hyperparameter configuration trial (Best), linear regression via least squared with the option of adding instance description (LSid) or not (LS) to the ensemble, non-hyperparametric stacking stepwise regression over residuals adding instance description (RSWid) or not (RSW) to the ensemble and non-hyperparametric stacking stepwise regression over residual with the heuristic to provide zero weights to some models adding instance description to the ensemble (RSWHid) or not (RSWH), all taking into account several baseline systems (kNNR, Ridge, Lasso and SVR) and the GS sampling strategy.