kNNR	Best	BEM	IEW	Caruana	RSWH	RSWHid	WCH SCH
automobile	24.00(5)		23.28(2)	23.96(4)	26.03(6)	<b>22.85</b> (1)	21.17 12.49
fertility	98.29(2)	( )	99.28(4)	98.42(3)	<b>97.70</b> (1)	104.19(6)	96.30 74.70
flow	87.64(5)	85.73(3)	85.73(4)	85.60(2)	94.66(6)	<b>59.72</b> (1)	80.43 54.25
forest	\ /	107.01(6)	. ,	104.30(4)	<b>99.33</b> (1)	99.70(2)	103.24 93.16
servo	48.98(3)	( )	51.18(4)	52.48(6)	<b>43.95</b> (1)	44.21(2)	41.53 33.22
slump	95.02(5)	( )	91.33(3)	90.48(2)	100.93(6)	<b>89.88</b> (1)	85.60 58.69
traffic	34.54(5)	( )	34.22(2)	34.24(3)	<b>34.11</b> (1)	34.97(6)	32.99 22.68
wine_red	84.85(6)	( )	82.33(3)	83.20(5)	83.13(4)	<b>66.28</b> (1)	84.31 53.25
wine_white	86.12(6)	81.75(3)	81.79(4)	82.51(5)	81.62(2)	<b>67.08</b> (1)	83.17 51.17
Avg. Rank	(4.44)	(3.89)	(3.44)	(3.78)	(3.11)	(2.33)	
Ridge	Best		(5.44) IEW	Caruana	RSWH	RSWHid	WCH SCH
			17.79(3)	17.62(1)			
automobile	19.79(6)	17.76(2)	( )	( )	18.80(4)	19.40(5)	17.78 9.71
fertility	\ /	102.89(5)	( /	102.40(3)	<b>97.77</b> (1)	106.99(6)	102.33 97.20
flow	65.66(3)	( )	66.46(5)	65.93(4)	64.64(2)	<b>63.24</b> (1)	65.30 63.78
forest	99.01(2)	99.45(5)	99.45(4)	99.22(3)	<b>98.26</b> (1)	99.69(6)	98.98 97.74
servo	<b>62.34</b> (1)		62.43(4)	62.34(2)	63.39(6)	63.08(5)	61.87 61.44
slump	86.55(3)		86.96(5)	86.81(4)	85.69(2)	<b>78.64</b> (1)	86.18 83.92
traffic	39.81(4)	( )	40.31(5)	39.73(3)	37.21(2)	<b>36.40</b> (1)	39.50 38.17
wine_red	<b>64.85</b> (1)		65.77(5)	64.87(2)	64.89(3)	64.94(4)	64.83 51.75
wine_white	72.96(3)	74.63(6)	74.56(5)	72.95(2)	72.96(4)	<b>72.89</b> (1)	72.95 62.54
Avg. Rank	(2.78)	(5.00)	(4.44)	(2.67)	(2.78)	(3.33)	
Lasso	Best		IEW	Caruana	RSWH	RSWHid	WCH SCH
automobile	18.55(5)	( )	18.50(2)	18.53(4)	18.29(1)	19.42(6)	18.40 18.22
fertility	92.95(3)	( )	92.92(2)	92.95(3)	93.04(5)	103.44(6)	92.80 92.56
flow	65.12(3)	( )	66.00(5)	65.46(4)	64.18(2)	62.61(1)	65.12 63.98
forest	99.50(2)	( )	99.60(5)	99.55(3)	98.25(1)	99.65(6)	99.47 99.03
servo	64.85(2)	74.33(6)	72.62(5)	72.25(4)	63.67(1)	65.35(3)	63.28 48.76
$_{ m slump}$	85.84(3)	86.57(6)	86.57(5)	86.08(4)	85.55(2)	<b>80.71</b> (1)	85.84 83.56
traffic	33.98(1)	34.70(4)	34.68(3)	34.83(5)	34.68(2)	49.65(6)	33.92 29.30
$wine\_red$	74.83(3)	84.81(6)	83.94(5)	83.60(4)	74.53(2)	65.75(1)	74.83 60.26
wine_white							
	78.77(3)	85.76(6)	85.24(5)	84.62(4)	78.54(2)	74.22(1)	78.77 64.46
Avg. Rank	$\frac{78.77(3)}{(2.83)}$	85.76(6) (4.67)	85.24(5) (4.11)	84.62(4) (3.94)	78.54(2) ( <b>2.00</b> )	<b>74.22</b> (1) (3.44)	78.77 64.46
Avg. Rank SVR		(4.67)					
	(2.83) Best	(4.67)	(4.11) IEW	(3.94) Caruana	(2.00)	(3.44)	
SVR	(2.83)	(4.67) BEM 40.09(6)	(4.11) IEW 23.65(5)	(3.94)	(2.00) RSWH	(3.44) RSWHid	WCH SCH
SVR automobile	(2.83) Best 19.78(3)	(4.67) BEM 40.09(6) <b>93.79</b> (1)	(4.11) IEW	(3.94) Caruana 20.43(4)	(2.00) RSWH 19.15(2)	(3.44) RSWHid <b>18.33</b> (1)	WCH SCH 19.14 5.42
SVR automobile fertility	(2.83)  Best 19.78(3) 97.73(4)	(4.67) BEM 40.09(6) <b>93.79</b> (1) 73.47(6)	(4.11) IEW 23.65(5) 93.88(2)	(3.94) Caruana 20.43(4) 99.25(5)	(2.00) RSWH 19.15(2) 96.52(3)	(3.44) RSWHid <b>18.33</b> (1) 102.74(6)	WCH SCH 19.14 5.42 91.14 57.22
SVR automobile fertility flow	(2.83)  Best 19.78(3) 97.73(4) 72.44(4)	(4.67) BEM 40.09(6) <b>93.79</b> (1) 73.47(6)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3)	(3.44) RSWHid <b>18.33</b> (1) 102.74(6) <b>63.16</b> (1)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26
SVR automobile fertility flow forest	(2.83)  Best 19.78(3) 97.73(4) 72.44(4) 98.09(2) 20.81(3)	(4.67) BEM 40.09(6) 93.79(1) 73.47(6) 99.11(4)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2) 99.42(5)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5) 98.00(1)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3) 98.60(3)	(3.44) RSWHid <b>18.33</b> (1) 102.74(6) <b>63.16</b> (1) 100.18(6)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26 97.05 85.46
SVR automobile fertility flow forest servo	(2.83)  Best 19.78(3) 97.73(4) 72.44(4) 98.09(2) 20.81(3)	(4.67) BEM 40.09(6) 93.79(1) 73.47(6) 99.11(4) 61.09(6)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2) 99.42(5) 45.90(5)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5) <b>98.00</b> (1) 23.17(4)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3) 98.60(3) 18.52(1)	(3.44) RSWHid <b>18.33</b> (1) 102.74(6) <b>63.16</b> (1) 100.18(6) 18.75(2)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26 97.05 85.46 19.67 10.12
SVR automobile fertility flow forest servo slump	(2.83)  Best 19.78(3) 97.73(4) 72.44(4) 98.09(2) 20.81(3) 93.90(5)	(4.67) BEM 40.09(6) 93.79(1) 73.47(6) 99.11(4) 61.09(6) 132.65(6) 37.85(3)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2) 99.42(5) 45.90(5) 91.06(4)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5) <b>98.00</b> (1) 23.17(4) 85.82(2)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3) 98.60(3) 18.52(1) 77.52(1)	(3.44) RSWHid <b>18.33</b> (1) 102.74(6) <b>63.16</b> (1) 100.18(6) 18.75(2) 87.43(3)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26 97.05 85.46 19.67 10.12 85.16 18.96
SVR automobile fertility flow forest servo slump traffic	(2.83)  Best 19.78(3) 97.73(4) 72.44(4) 98.09(2) 20.81(3) 93.90(5) 48.05(5)	(4.67) BEM 40.09(6) 93.79(1) 73.47(6) 99.11(4) 61.09(6) 132.65(6) 37.85(3)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2) 99.42(5) 45.90(5) 91.06(4) 35.86(2)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5) 98.00(1) 23.17(4) 85.82(2) 34.84(1)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3) 98.60(3) 18.52(1) 77.52(1) 43.16(4)	(3.44) RSWHid 18.33(1) 102.74(6) 63.16(1) 100.18(6) 18.75(2) 87.43(3) 49.83(6)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26 97.05 85.46 19.67 10.12 85.16 18.96 32.95 9.81
SVR automobile fertility flow forest servo slump traffic wine_red	(2.83)  Best 19.78(3) 97.73(4) 72.44(4) 98.09(2) 20.81(3) 93.90(5) 48.05(5) 66.14(6)	(4.67)  BEM  40.09(6)  93.79(1)  73.47(6)  99.11(4)  61.09(6)  132.65(6)  37.85(3)  62.47(5)	(4.11) IEW 23.65(5) 93.88(2) 70.75(2) 99.42(5) 45.90(5) 91.06(4) 35.86(2) 62.19(4)	(3.94) Caruana 20.43(4) 99.25(5) 72.71(5) <b>98.00</b> (1) 23.17(4) 85.82(2) <b>34.84</b> (1) 60.35(3)	(2.00) RSWH 19.15(2) 96.52(3) 72.02(3) 98.60(3) 18.52(1) 77.52(1) 43.16(4) 57.32(1)	(3.44) RSWHid 18.33(1) 102.74(6) 63.16(1) 100.18(6) 18.75(2) 87.43(3) 49.83(6) 57.74(2)	WCH SCH 19.14 5.42 91.14 57.22 61.57 15.26 97.05 85.46 19.67 10.12 85.16 18.96 32.95 9.81 65.30 17.22

Table 7: The 3-fold cross validation relative mean squared error and Friedman ranks for all datasets when the best hyperparameter configuration trial (Best), simple average (BEM), the inverse of the error (IEW), Caruana method (Caruana) 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 RS sampling strategy. The scores for the cheating approaches WCH and SCH are also shown, but they were not included in the computation of the Friedman ranks.