| MLS | Dataset | PLS(AIC) | PLS(AICc) | PLS(BIC) | PLS(HQIC) | PLS(GMDL) |
|---|---|---|---|---|---|---|
| | automobile | 19.20(4) | 19.20(4) | **18.43**(1) | 19.20(4) | **18.43**(1) |
| | fertility | **102.98**(3) | **102.98**(3) | **102.98**(3) | **102.98**(3) | **102.98**(3) |
| | flow | **65.13**(3) | **65.13**(3) | **65.13**(3) | **65.13**(3) | **65.13**(3) |
| | forest | **100.40**(3) | **100.40**(3) | **100.40**(3) | **100.40**(3) | **100.40**(3) |
| Ridge | servo | **60.28**(3) | **60.28**(3) | **60.28**(3) | **60.28**(3) | **60.28**(3) |
| | slump | **85.53**(2) | **85.53**(2) | **85.53**(2) | **85.53**(2) | 85.94(5) |
| | traffic | **43.80**(2) | **43.80**(2) | **43.80**(2) | **43.80**(2) | 44.95(5) |
| | wine_red | **65.64**(3) | **65.64**(3) | **65.64**(3) | **65.64**(3) | **65.64**(3) |
| | wine_white | **73.94**(3) | **73.94**(3) | **73.94**(3) | **73.94**(3) | **73.94**(3) |
| Avg. Rank | | (3.00) | (3.00) | (**2.72**) | (3.00) | (3.28) |
| | automobile | **73.87**(3) | **73.87**(3) | **73.87**(3) | **73.87**(3) | **73.87**(3) |
| | fertility | 113.93(3) | 118.76(5) | **108.11**(1) | 113.93(3) | **108.11**(1) |
| | flow | **88.70**(2) | **88.70**(2) | 93.03(4) | **88.70**(2) | 98.99(5) |
| | forest | **100.67**(3) | **100.67**(3) | **100.67**(3) | **100.67**(3) | **100.67**(3) |
| SVR | servo | 27.00(4) | 27.00(4) | 26.88(2) | 27.00(4) | **21.37**(1) |
| | slump | **92.39**(3) | **92.39**(3) | **92.39**(3) | **92.39**(3) | **92.39**(3) |
| | traffic | 71.17(2) | 71.21(4) | 71.17(2) | 73.76(5) | **70.81**(1) |
| | wine_red | 75.57(3) | **73.40**(1) | 75.57(3) | 75.57(3) | 75.57(3) |
| | wine_white | **72.53**(3) | **72.53**(3) | **72.53**(3) | **72.53**(3) | **72.53**(3) |
| Avg. Rank | | (3.06) | (3.11) | (2.83) | (3.33) | (**2.67**) |
| | automobile | **18.02**(1) | 18.99(4) | 18.66(3) | 18.99(4) | 18.56(2) |
| | fertility | 101.88(4) | 98.88(3) | 98.06(2) | 101.88(4) | **93.11**(1) |
| | flow | 80.35(3) | 80.35(3) | 80.35(3) | 80.35(3) | **73.98**(1) |
| | forest | **106.27**(3) | **106.27**(3) | **106.27**(3) | **106.27**(3) | **106.27**(3) |
| RF | servo | 19.81(2) | 21.83(5) | 19.81(2) | 21.12(4) | **19.75**(1) |
| | slump | 98.40(3) | 113.09(5) | 93.37(2) | 109.98(4) | **80.57**(1) |
| | traffic | 55.17(4) | 55.17(4) | **50.89**(1) | 55.17(4) | **50.89**(1) |
| | wine_red | 64.25(2) | **61.61**(1) | 68.54(4) | 64.25(2) | 68.54(4) |
| | wine_white | 71.12(3) | **67.92**(1) | 76.03(4) | **67.92**(1) | 76.03(4) |
| Avg. Rank | | (3.00) | (3.39) | (2.94) | (3.50) | (**2.17**) |
| Mean Rank | | (3.02) | (3.17) | (2.83) | (3.28) | (**2.70**) |

Table 18: The 3-fold cross validation relative mean squared error and Friedman ranks for all the datasets when PLS, using several stop criteria (AIC, AICc, BIC, HQIC and GMDL), taking into account some baseline systems (Ridge, SVR and RF) and the PSO sampling strategy.