

GPTIPS pareto front report

30-Apr-2019 17:19:46

Config file: Y9_config.m

Number of models on front: 3

Total models: 100

This report shows the expressional complexity/performance characteristics (on training data) of symbolic models on the pareto front.

Numerical precision is reduced for display purposes.

Click on column headers to sort models by expressional complexity and goodness of fit (R^2).

Model ID	Goodness of fit (R^2)	Model complexity	Model
8	0.957	281	$0.114 x_1 + 0.0983 x_2 - 0.013 x_3 - 0.217 x_4 - 0.263 x_5 + 5.73e-6 x_3^2 x_5^2 - 0.0113 x_1 x_4 + 5.07e-5 x_2 x_3 + 7.56e-4 x_2 x_5 - 9.11e-4 x_3 x_4 - 0.0146 x_3 x_5 + 0.00678 x_4 x_5 - 5.73e-6 x_3 x_5^2 + 5.73e-6 x_3 x_5^3 + 5.73e-6 x_4 x_5^2 - 0.048 x_1^2 - 8.07e-4 x_2^2 + 0.048 x_3^2 + 5.41e-5 x_5^2 - 5.73e-6 x_5^3 - 5.73e-6 x_3 x_4 x_5^2 - 5.73e-6 x_3^2 x_4 x_5 + 0.00175 x_1 x_2 x_3 - 0.00175 x_1 x_3 x_4 + 5.73e-6 x_3 x_4 x_5 + 6.72$
25	0.941	213	$1.76e-4 (x_2 - 1.0 x_4) (x_3 - 1.0 x_5) - 0.0147 x_2 - 8.31e-4 x_3 - 0.135 x_4 - 0.116 x_5 - 0.0147 x_1 + 0.0022 x_4 x_5 + 1.76e-4 x_2 x_3^2 + 4.75e-7 (x_3 + x_5) (x_4 - 1.0 x_5) (x_3 x_5 - 1.0 x_5 + 9.43) + 0.00165 x_1 x_3 (x_2 - 1.0 x_4) + 8.01$
70	0.957	289	$0.113 x_1 + 0.0949 x_2 - 0.026 x_3 - 0.209 x_4 - 0.272 x_5 + 6.58e-6 x_3^2 x_5^2 - 0.0141 x_1 x_4 - 1.02e-4 x_2 x_3 + 9.02e-4 x_2 x_5 - 7.61e-4 x_3 x_4 - 0.017 x_3 x_5 + 0.0068 x_4 x_5 - 1.02e-4 x_2 x_3^2 - 6.58e-6 x_3 x_5^2 + 6.58e-6 x_3 x_5^3 + 6.58e-6 x_4 x_5^2 - 0.0623 x_1^2 - 8.01e-4 x_2^2 + 0.0623 x_3^2 + 6.21e-5 x_5^2 - 6.58e-6 x_5^3 - 6.58e-6 x_3 x_4 x_5^2 - 6.58e-6 x_3^2 x_4 x_5 + 0.00195 x_1 x_2 x_3 - 0.00195 x_1 x_3 x_4 + 6.58e-6 x_3 x_4 x_5 + 6.99$

GPTIPS - the symbolic data mining platform for MATLAB

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