

S1 Linear Modeling of Efficiency and NRMSE

We built a linear regression model to check the relationship between NRMSE, E and the number of consecutive time intervals z and the consistency threshold Th_C . The models have the form

$$NRMSE = a_1 + a_2z + a_3z^2 + a_4\sqrt{Th_C} + a_5Th_C + err$$

and

$$\sqrt{\hat{E}} = b_1 + b_2z + b_3z^2 + b_4e^{-0.15Th_C} + err$$

Where err is a random error and a_i and b_i are the polynomial parameters of the model. The addition of $\sqrt{Th_C}$ and $e^{-0.15Th_C}$ was to ensure that the linear regression assumptions were approximately satisfied. We also conducted a model diagnostic based on residual plots to verify that the linear regression assumptions (i.e. random errors are normally distributed with mean 0 and constant variance) were fulfilled.