

## Accepted Manuscript

Title: Bayesian Model Averaging for Estimating the Spatial Temperature Distribution in a Steam Methane Reforming Furnace

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### Highlights

- Integrated Model Identification Scheme based on Bayesian Methods, Sparse Nonlinear Regression and Ordinary Kriging.
- Sparse Nonlinear Regression with Maximum Likelihood Criterion via  $L_1$  Regularization Technique is Employed.
- Computationally Efficient Model Identification Strategy Based on Parallel Computing.
- Data-driven Model with High Goodness-of-Fit and Out-of-Sample Predictive Performance.

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