



Model Validation Procedures

Guest Editor:

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Message from the Guest Editor

This Special Issue aims to establish a collection of articles on reliable model validation and calibration procedures in order to define novel standards. We welcome research articles on novel methods, but also review papers, in order to give an overview about the current state-of-the-art. Topics include, but are not limited to, the following:

- Novel and scientifically sound calibration and validation procedures for computational, statistical, and machine-learning based models in life sciences and process engineering;
- Novel statistical approaches for experimental data;
- Criteria to define the validity of model outcomes, specifically, machine learning-based methods;
- Calibration protocols for coarse-grained and molecular models;
- Reliable calibration and validation procedures for mechanistic, hybrid, statistical, computational fluid dynamics, and lattice-Boltzmann simulations, as well as neural network approaches for the study of unit operation behavior in bioprocesses;
- Validation and calibration protocols for integrated processed and coupled unit operation models.





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Message from the Editor-in-Chief

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