Special Issue

Hybrid Modeling of Chemical Processes: Theory and Applications

Message from the Guest Editor

The main focus of this Special Issue is to collect state-of-the-art methods and new exciting applications of hybrid modeling (i.e., integrating data-driven and first principles modeling) for monitoring, forecasting, control and optimization, especially in industrial applications. Topics include, but are not limited to:

- New hybrid model architectures;
- Platforms for hybrid modeling;
- Parameter identification for hybrid modeling;
- Physics-informed neural networks (PINNs);
- Dealing with heterogeneous knowledge and data sources;
- Hybrid control theory, approaches, and applications;
- Fault diagnosis and process health monitoring;
- Condition-based monitoring;
- Optimization, scheduling, decision making, and simulation:
- Transfer learning.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



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You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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