Special Issue

Process Systems Engineering for Complex Industrial Systems

Message from the Guest Editors

The special issue on "Process Systems Engineering for Complex Industrial Systems" seeks high-quality works focusing on the recent advances in process systems engineering for industrial applications, especially the model-based, data-driven and hybrid techniques for process modeling, condition monitoring, fault detection and diagnosis, quality prediction and soft sensing, regulation and control design, etc. Moreover, new problems and future research directions on process systems engineering are also welcome. Topics include, but are not limited to:

- Model-based process modeling
- Data-driven process modeling
- State and parameter estimation
- Condition monitoring, fault detection and diagnosis
- Software sensor modeling
- Process control and regulation
- Thermodynamics-based process modeling and control
- Machine learning-based modeling, estimation, and control
- Process data analytics and multivariate statistical analysis
- Hybrid methods and model calibration
- Applications in chemical, biological, manufacturing, and energy systems

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2025)

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About the Journal

Message from the Editor-in-Chief

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.

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