# **Special Issue**

## Innovative Approaches to Modeling, Optimization, Control, and Monitoring in Industrial Processes

### Message from the Guest Editors

This Special Issue, 'Innovative Approaches to Modeling, Optimization, Control, and Monitoring in Industrial Processes', aims to highlight original research contributions focused on practical applications. Topics include the following:

- The development of novel modeling techniques for complex industrial processes, including chemical, energy, and manufacturing systems.
- Advanced optimization methods for process improvement, scheduling, and resource allocation.
- State-of-the-art control strategies for nonlinear, highdimensional, or uncertain systems.
- Safety control theories and applications for industrial processes.
- Innovative monitoring technologies for real-time analysis, fault detection, and predictive maintenance.
- Security and robustness of data-driven models in process monitoring systems.
- The integration of modeling, optimization, and control for sustainable energy-efficient processes.
- Case studies showcasing the applications of innovative methodologies to real-world industrial challenges.

### **Guest Editors**

Prof. Dr. Yuanqiang Zhou

- Dr. Le Yao
- Dr. Xiaoyu Jiang
- Dr. Zheren Zhu

### Deadline for manuscript submissions

20 November 2025



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### 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.

### Editor-in-Chief

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