

## Special Issue

# Application of Artificial Intelligence in Industrial Process Modelling and Optimization (2nd Edition)

### Message from the Guest Editors

**Scope and Objectives:** This Special Issue primarily aims to foster more research and progress in the application of AI for industrial process modelling and optimization. Its scope encompasses a wide range of industries, including, for example, manufacturing, process engineering, automation, and robotics. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- AI-based modelling techniques;
- Data-driven modelling techniques;
- The modelling of complex industrial processes;
- The integration of AI algorithms;
- Adaptive control systems;
- Human-machine collaboration systems;
- Optimization strategies;
- Intelligent optimization in industrial processes;
- Data-driven decision support systems;
- Applications of AI in cyber-physical systems;
- AI-based process monitoring and fault diagnosis;
- AI-driven cyber-physical systems.

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### Guest Editors

Prof. Dr. Sheng Du

Prof. Dr. Li Jin

Dr. Pan Yu

Dr. Hao Liu

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### Deadline for manuscript submissions

31 January 2026



## Processes

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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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