

## Special Issue

# Intelligent Operation, Maintenance, and Scheduling of Industrial Manufacturing Processes

### Message from the Guest Editors

This Special Issue provides a platform to exchange research works, technical trends and practical experience related to fault diagnosis, process control, operation research, applied mathematics and management science. The goal is to broaden the intelligent manufacturing research community and promote the application of artificial intelligence in industrial manufacturing processes. Topics to be covered include, but are not limited to the following:

- Design, control and optimization of assembly systems
- Design, control and optimization of disassembly systems
- Digital twin techniques in manufacturing
- Emission control and energy saving in manufacturing
- End-of-life product recycling
- Formal methods in the modeling, verification and analysis of manufacturing systems
- Heuristic search algorithms
- Intelligent factory
- Real-time task allocation
- Real-time task scheduling
- Machine learning and reinforcement learning in manufacturing
- Smart sensing and control
- Smart logistics management
- System simulation and performance evaluation
- Sustainability manufacturing
- Workstation load balancing in manufacturing, assembly and disassembly

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### Guest Editors

Dr. Bin Hu

Prof. Dr. Jiacun Wang

Dr. Xiwang Guo

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### Deadline for manuscript submissions

31 May 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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