

Special Issue

AI-Supported Methods and Process Modeling in Smart Manufacturing

Message from the Guest Editors

This Special Issue invites research on AI-based methods for process monitoring, predictive maintenance, real-time control, and optimization across various manufacturing sectors. The focus is on both theoretical and practical contributions that drive the development of intelligent and adaptive manufacturing solutions, leveraging the power of AI for industrial transformation. Topics include, but are not limited to, the following:

- AI-driven process modeling and optimization;
- predictive maintenance and fault detection;
- machine learning applications in manufacturing;
- autonomous decision-making systems;
- real-time process control and monitoring;
- integration of AI in Industry 4.0 frameworks;
- AI-enhanced resource and energy efficiency in manufacturing.

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Deadline for manuscript submissions

15 January 2026



Processes

an Open Access Journal
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Impact Factor 2.8
CiteScore 5.5



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