

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.

Guest Editors

Dr. Minghai Yuan

College of Mechanical and Electrical Engineering, Hohai University, Changzhou 213022, China

Dr. Fengque Pei

College of Mechanical and Electrical Engineering, Hohai University, Changzhou 213022, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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