

## Special Issue

# AI-Driven Smart Manufacturing: Bridging Data Innovation, Industrial Practice, and Ethical Intelligence

### Message from the Guest Editors

This Special Issue aims to present leading-edge research and practical innovations at the intersection of AI, data science, and manufacturing systems. We welcome contributions that explore how intelligent technologies are being deployed to solve real-world manufacturing challenges, enhance operational decision-making, and create more adaptive, resilient, and human-centric production environments. We are particularly interested in submissions that highlight the following:

- The use of machine learning for process optimisation, predictive maintenance, and quality assurance;
- Emerging technologies such as digital twins, cyber-physical systems, and the Industrial Internet of Things (IIoT);
- Applications of computer vision, neural networks, reinforcement learning, and edge computing in production settings;
- Human–AI collaboration, including explainability, trust, and the role of operators in AI-assisted environments;
- Ethical considerations and sustainable practices in data-driven manufacturing.

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### Guest Editors

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### Deadline for manuscript submissions

30 April 2026



## Journal of Manufacturing and Materials Processing

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Impact Factor 3.3  
CiteScore 5.2



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*Journal of Manufacturing and  
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## About the Journal

### Message from the Editor-in-Chief

*Journal of Manufacturing and Materials Processing (JMMP)* (ISSN 2504-4494) is a new MDPI peer-reviewed, open access venue with a focus on the scientific fundamentals and engineering methodologies of manufacturing and materials processing. We offer an online platform facilitating effective exchange of innovative scientific and engineering ideas and the dissemination of recent, original, and significant research and developmental findings. On behalf of the Editorial Board, I extend an invitation to our scientific and engineering colleagues to contribute high-quality, innovative, and ground-breaking research articles to *JMMP*.

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### Editor-in-Chief

Prof. Dr. Steven Y. Liang  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).