



Smart and Advanced Manufacturing

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Message from the Guest Editors

Artificial intelligence (AI), machine learning, and Big Data analytics are the keystones of advanced manufacturing. This Special Issue seeks to publish fundamental and applied research in the following broad areas to enhance advanced manufacturing systems, processes, or products in all manufacturing domains, not limited to subtractive, formative, additive, hybrid, continuous, and robot-assisted manufacturing processes.

- Predictive modeling and design
- Data-driven process monitoring, control, and optimization
- Physics-informed machine learning (Scientific machine learning/explicit AI).
- Digital twins (process or product digital twins) and applications
- Sensor data fusion
- Novel sensing and monitoring systems.
- Robot-assisted manufacturing processes and computational methods
- Industrial IoTs and applications
- Human-robot/machine interaction/collaboration
- AR/VR and other immersive techniques in advanced manufacturing
- Hybrid manufacturing (combination of additive and subtractive manufacturing)





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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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