

Special Issue

Human-Centered Manufacturing in the Era of Industry 5.0: Toward Personalized and Intelligent Collaborative Production Systems

Message from the Guest Editors

The transition from Industry 4.0 to Industry 5.0 marks a paradigm shift from automation-centric to human-centric manufacturing. This Special Issue focuses on emerging trends, technologies, and methods that enable personalized, resilient, and sustainable production systems through the integration of human skills and intelligent machines. Potential subtopics for this Special Issue include, but are not limited to, the following:

- Industry 5.0
- human-centric manufacturing
- collaborative workspaces
- human-machine interaction
- human-robot collaboration
- socio-technical systems
- digital twins
- smart manufacturing
- resilient production systems
- sustainable manufacturing
- cyber-physical systems
- AI in manufacturing
- future manufacturing ecosystems

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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).