

Special Issue

Recent Advances in Smart Design and Manufacturing Technology

Message from the Guest Editors

The rapid growth of advanced technologies and their massive introduction into industrial contexts is radically changing the approach to design and manufacturing. This Special Issue focuses on all aspects of scientific and technological progress related to advanced design approaches and manufacturing technologies. It welcomes original research articles aimed at exploring recent developments in relevant areas, applying interdisciplinary approaches. Review articles are also accepted for proposal. Potential topics of this Special Issue include, but are not limited to, the following:

- Design for Additive Manufacturing;
- Advanced numerical simulation methods and techniques to support product and process analyses, design, and monitoring;
- Generative Design for AM;
- Remanufacturing;
- Design for Disassembly;
- Reverse Engineering;
- Digital Twin;
- Overall Equipment Effectiveness improvement;
- Smart maintenance and Structural Health Monitoring (SHM);
- Extended Reality;
- Artificial Intelligence and preventive maintenance for smart manufacturing.

Guest Editors

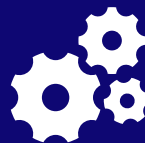
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Deadline for manuscript submissions

closed (31 October 2024)



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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 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).