

# 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.

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### Guest Editors

Dr. Alessandro Greco

Dr. Donato Perfetto

Dr. Mario Caterino

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### Deadline for manuscript submissions

closed (31 October 2024)



## Machines

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*Machines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[machines@mdpi.com](mailto:machines@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
CISE–Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

#### Rapid Publication:

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).