

Special Issue

Design and Manufacturing for Lightweight Components and Structures

Message from the Guest Editors

The theme of this Special Issue is "Design and Manufacturing for Lightweight Components and Structures." It is intended to provide a platform for scholars and investigators to share their latest theoretical and technological achievements, and original ideas are expected to be presented in the papers submitted. The topics to be investigated include, but are not limited to, the following:

- Advanced lightweight materials;
- Structural optimization and design;
- Simulation and computational modeling;
- Composite materials and processing technology;
- Dissimilar material joining;
- New metal joining technology;
- Quality inspection/detection technology;
- Lightweight design for automotive, aerospace, marine, and consumer electronics;
- Additive manufacturing technologies for lightweight components;
- High performance manufacturing tools;
- Sustainable manufacturing;
- Energy efficiency and environmental protection.

Guest Editors

Dr. Hao Jiang

Department of Mechanical and Vehicle Engineering, Hunan University, Changsha 410000, China

Dr. Shaoluo Wang

State Key Laboratory of Advanced Design and Manufacturing Technology for Vehicle, Hunan University, Changsha 410082, China

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Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

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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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).