

## Special Issue

# Computational Mechanics in Design and Optimization of Structures and Advanced Materials

### Message from the Guest Editors

In this Special Issue on “Computational Mechanics in the Design and Optimization of Structures and Advanced Materials”, we invite researchers in the field of computational mechanics to present new and innovative uses of computational modelling in the study and analysis of component and structural design. We also invite studies that deal with the use of computational models in the study of advanced material behavior or performance. Papers accepted in this Special Issue are expected to contain original ideas and potential solutions available for using computational methods to resolve real current engineering problems. The topics covered include but are not limited to the following:

- Coupled field problems (thermomechanics, FSI);
- Computational biomechanics;
- Computational metal forming;
- Computational fracture mechanics;
- Computational material science;
- Structure optimization.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2023)



## Machines

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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).