

## Special Issue

# Selected Papers from OPROTEH 2023: 18th International Conference of Constructive Design and Technological Optimization in Machine Building

### Message from the Guest Editors

This Special Issue discusses the latest trends in engineering research with a focus on the most important domains from engineering sciences. The 18th International Conference of Constructive Design and Technological Optimization in Machine Building—OPROTEH 2023, 11–13 MAY 2023—is an event organized by the Faculty of Engineering from Vasile Alecsandri University of Bacau, Romania. This international event is a worldwide gathering of academicians, scientists, researchers, engineers, professionals, industry experts, decision-makers, and students to share and discuss the latest advancements in the engineering fields. Topics of interest to this Special Issue include, but are not limited to, the following:

- A: Optimization of manufacturing processes and systems and computer-aided design and manufacturing.
- B: Optimization of technologies and equipment from process industries.
- C: Optimization in environmental engineering and environmental protection.
- D: Mechatronics and robotics.
- E: Computer science and industrial power engineering.

---

### Guest Editors

Dr. Mirela Panainte-Lehăduș

Dr. Narcis Barsan

Dr. Florin Nedeff

---

### Deadline for manuscript submissions

closed (31 July 2024)



## Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.7

---



[mdpi.com/si/179852](https://mdpi.com/si/179852)

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

[mdpi.com/journal/  
machines](https://mdpi.com/journal/machines)





# Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.7



[mdpi.com/journal/  
machines](https://mdpi.com/journal/machines)



## 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

---

### 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 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).