

# Special Issue

## Optimization, Control and Design of Parallel Robots

### Message from the Guest Editors

The main objective of this Special Issue is to create a platform for scientists, engineers and practitioners to share their latest theoretical and experimental results, as well as to discuss several issues regarding research directions in the field of parallel robots. In this Special Issue, we hope to publish papers that provide recent results pertaining to the development of high-performance optimization and simulation methods for many robotics problems, including: optimization of geometric and design parameters, singularity analysis, workspace, planning trajectories within the required space, and optimization of design parameters based on the analysis of dynamic models. Developers and designers of parallel robots will be presented with methods for calculating the technical characteristics of robots, taking into account the requirements of controllability, safety and compact design. Articles containing results, both theoretical and experimental, relating to specific areas of robot application are especially welcome.

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### Guest Editors

Prof. Dr. Larisa Rybak

Prof. Dr. Giuseppe Carbone

Prof. Dr. Askhat Diveev

Prof. Dr. Nikolai N. Bolotnik

Dr. Alexey Fomin

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### Deadline for manuscript submissions

closed (15 March 2024)



## 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).