

## Special Issue

# The Future of Mobility: Exploring Wheeled–Legged Robot Systems

### Message from the Guest Editors

This Special Issue aims to gather original research, reviews, and case studies that address the latest advances in the dynamic locomotion of wheeled–legged robots. We welcome contributions on model-based and learning-based control strategies, trajectory optimization, terrain interaction modeling, perception-driven planning, and integrated system design. Work demonstrating real-world deployments or benchmarking in unstructured environments is especially encouraged.

- wheeled–legged robots
- dynamic locomotion
- hybrid mobility systems
- motion planning and control
- whole-body control
- terrain adaptation
- perception-based locomotion
- trajectory optimization
- learning-based control
- real-world deployment

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### Guest Editors

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### Deadline for manuscript submissions

30 November 2026



## 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  
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#### 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).