

# Special Issue

## Selected Papers from the 8th International Symposium on Multibody Systems and Mechatronics

### Message from the Guest Editors

This Special Issue explores these synergies and their applications in robotics, vehicle dynamics, biomechanics, mechanical design, artificial intelligence, and optimization. The featured articles span a diverse range of topics, including, but not limited to, the following:

- Kinematics and dynamics of machines and mechanisms: novel approaches to motion analysis, flexible multibody systems, and real-time simulations.
- Control theory and mechatronics: advances in adaptive, robust, and intelligent control strategies for complex electromechanical systems.
- Optimization and mechanical design: methods for enhancing system performance, reducing energy consumption, and improving reliability.
- Artificial intelligence and robotics: machine learning-driven modeling, autonomous systems, and intelligent motion planning.
- Vehicles and biomechanics: applications in automotive engineering, human movement analysis, and bio-inspired robotic systems.

We hope this Special Issue will be a valuable resource for academics, engineers, and professionals, inspiring future innovations and fostering cross-disciplinary collaborations.

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### Guest Editors

Dr. Mario Acevedo

Dr. Leonardo Valdivia

Prof. Dr. Hiram Ponce

Prof. Dr. Ramiro Velázquez

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### Deadline for manuscript submissions

31 December 2025



# 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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#### 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).