

## Special Issue

# Multi-Body System Dynamics: Monitoring, Simulation and Control

### Message from the Guest Editor

Mechanical systems are becoming more and more connected with electric power transmission, monitoring, automation, and control systems. The multi-physical connections take place over various networks, e.g., power networks or industrial Internet. The motivation for the connection is usually in improving machine efficiency, safety, or environmental impact. The machine design becomes challenging, as mastering one discipline cannot guarantee machine behavior. This Special Issue calls original research papers on multi-body mechanical systems connected with electric powertrain, control and/or monitoring systems. These mechatronic systems can be found in various applications, e.g., in electric or autonomous vehicles, robotics, etc. The scope of this issue is not limited to the application focus, but, rather, calls for novel contributions on the analysis of these multi-physical systems. Multi-physical analysis of multi-body systems connected with experimental results is expected in papers that will be published.

### Guest Editor

Prof. Dr. Kari Tammi

Department of Mechanical Engineering, Aalto University, Espoo, Finland

### Deadline for manuscript submissions

closed (31 October 2018)



## Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.7

---



[mdpi.com/si/13365](https://mdpi.com/si/13365)

*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).