

Special Issue

Smart Mechatronics: Modeling, Instrumentation and Control

Message from the Guest Editors

In order to develop these applications in mechatronics, the design of a robust and effective control algorithm is crucial. Depending on the control objective, with the possibility to measure related signals and available hardware for implementation, the selected control algorithm varies from classical approaches such as PID and linear state feedback, robust control schemes such as sliding mode and adaptive control, and advanced methodologies such as intelligent control.

The control algorithm usually relies on the obtainment of a mathematical model that permits the selection of the correct control scheme and determination of its parameters, whose complexity is defined by the nature of the mechatronic system itself.

- systems and control engineering
- electronic engineering
- mechatronics
- robotics
- mechanical systems, machines, and related components
- machine vision
- machine diagnostics and prognostics (condition monitoring)

Guest Editors

Dr. Luis Enrique González-Jiménez

Dr. Luis Fernando Luque-Vega

Dr. Oscar Eleno Carbajal-Espinosa

Deadline for manuscript submissions

closed (31 October 2023)



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/154354

Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 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).