

Special Issue

Innovative Applications and Challenges of Intelligent Automation and Control in Smart Machines

Message from the Guest Editors

The increasing complexity of modern machines demands advanced control strategies to ensure optimal performance, robustness, and adaptability. This Special Issue focuses on nonlinear and adaptive control methods for smart machines, addressing challenges in stability, efficiency, and real-time adaptability. This Special Issue invites contributions to nonlinear control methods, adaptive algorithms, fault-tolerant control, and the real-time implementation of nonlinear control. We welcome original research and review articles addressing theoretical advancements, practical applications, and emerging trends in controlling smart machines, including robotics, UAVs, industrial automation, and autonomous vehicles. This Special Issue aims to advance control methodologies for next-generation smart machines, fostering innovation in intelligent automation.

Guest Editors

Dr. Karim Ahmadi

School of Arch, Tech and Eng, University of Brighton, Brighton BN2 4AT, UK

Dr. Seyed Yaser Nabavi Chashmi

Aeronautical Engineering Department, Aerospace Faculty, Gebze Technical University, 01250 Kocaeli, Turkey

Deadline for manuscript submissions

30 September 2025



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/235573

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 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).