

Special Issue

Biped Robotics: Bridging the Gap Between Humans and Machines

Message from the Guest Editor

This Special Issue explores the latest advancements in biped robot design, control systems, and applications. It highlights the interdisciplinary nature of the field, encompassing mechanical engineering, computer science, artificial intelligence, biomechanics, and materials science. This Special Issue delves into innovative approaches to achieving human-like balance, agility, and adaptability in robots. Key topics include advancements in actuators and sensors, the integration of machine learning algorithms for improved movement and decision-making, and the potential societal impacts of widespread biped robot adoption. Additionally, this Special Issue examines the integration of additive manufacturing and biomaterials, which enhance the structural and functional capabilities of biped robots.

Guest Editor

Dr. Shabnam Sadeghi Esfahlani

Faculty of Science and Engineering, Engineering and the Built Environment, Anglia Ruskin University, Cambridge, UK

Deadline for manuscript submissions

31 August 2025



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/212413

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).