

Special Issue

Nonlinear Dynamics of Mechanical Systems and Machines

Message from the Guest Editor

This Special Issue aims to explore the nonlinear dynamics of mechanical systems and machines, with a special emphasis on experimental investigation. Various fields are considered, such as model reduction, nonlinearity identification, vibration reduction, special nonlinear effects (localization, energy transfer, instabilities, etc.), with applications in the various fields of mechanical systems. Studies on simple nonlinear models representing nonlinear phenomena occurring in industrial machines are also welcome. In all cases, it is important that all studies include experimental measurements either to compare to numerical simulations, to demonstrate the effectiveness of a particular nonlinear device, or simply to point out a peculiar effect that is due to nonlinearity.

Guest Editor

Dr. Aurelien Grolet

Maître de Conférence, Arts et Métiers, Lille, France

Deadline for manuscript submissions

closed (30 November 2024)



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/206418

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).