

Special Issue

Safety of Machinery: Design, Monitoring, Manufacturing

Message from the Guest Editor

The safe operation of mechanical systems especially related to critical equipment is strictly demanded in practical industry applications. Therefore, studies regarding health monitoring, early defect detection, remaining useful life estimation and health management of machinery have received increasing attention both in industry and academia. Moreover, investigation of failure mechanisms and dynamic behavior as a consequence of initial defects or wear can also help to identify the root causes of machine failure and implement preventive actions for the safe operation of machines with high working reliability. This Special Issue is addressed to theoretical analyses/simulations and practical measures/techniques that center on solutions to machine safety problems, including, but not limited to, machine design, failure analysis, dynamics, reliability analysis, defect detection, health monitoring, diagnosis, remaining useful life estimation and health management.

Guest Editor

Dr. Wennian Yu

State Key Laboratory of Mechanical Transmission, Chongqing University, Chongqing 400044, China

Deadline for manuscript submissions

closed (30 April 2023)



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7



mdpi.com/si/131237

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).