

Special Issue

Research and Application of Rail Vehicle Technology

Message from the Guest Editors

With the acceleration of urbanization and the continuous growth of transportation demands, rail vehicle technology, as a crucial component of modern transportation, is facing unprecedented development opportunities. To further promote the research and application of rail vehicle technology, we are hosting the Special Issue entitled "Research and Application of Rail Vehicle Technology". Topics of interest include, but are not limited to, the following:

- Rail vehicle technology: including vehicle design, dynamic performance and operational safety.
- Intelligent rail vehicle technology: including research and application of intelligent rail vehicles such as autonomous driving, intelligent control, fault diagnosis and prediction, and information platforms.
- Rail vehicle systems and equipment: research and application of key components such as new braking systems, traction systems, and safety systems.
- Machine learning for railway vehicles: interpretable and robust machine learning for railway vehicles, encompassing system reliability analysis, diagnosis, prognosis, and health management.

Guest Editors

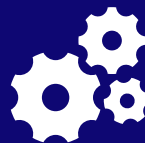
Prof. Dr. Jingsong Zhou

Dr. Kai Zhou

Dr. Yuejian Chen

Deadline for manuscript submissions

31 March 2026



Machines

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.7

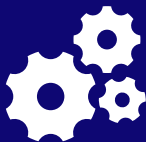


mdpi.com/si/221321

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).