

Special Issue

Reliability in Mechanical Systems: Innovations and Applications

Message from the Guest Editors

This Special Issue invites contributions that address the challenges and opportunities of reliability and mechanical systems. Topics of interest include, but are not limited to, the following:

- Advanced reliability analysis techniques: Novel methods for assessing and improving the reliability of mechanical systems.
- Predictive maintenance and condition monitoring: Strategies for the real-time monitoring and predictive maintenance of mechanical systems.
- Digital twins in mechanical systems: Application of digital twins for the simulation, monitoring, and optimization of mechanical systems.
- Machine learning and AI in reliability engineering: Use of machine learning and AI for fault detection, diagnosis, and prognosis in mechanical systems.
- Reliability-based design optimization: Integration of reliability analysis into the design optimization process.
- Risk assessment and management: Techniques for risk assessment and management in mechanical systems.
- Sustainability and reliability: Approaches to enhancing the sustainability of mechanical systems using reliability analysis.

Guest Editors

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Deadline for manuscript submissions

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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

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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).