

## Special Issue

# Advanced Techniques for Fault Detection, Diagnosis, and Prognostics in Machinery

### Message from the Guest Editor

This Special Issue aims to explore innovative methodologies and innovations in the field of fault detection, diagnosis, and prognostics for machinery. This issue highlights novel approaches, including advanced sensing technologies, data-driven analytics, machine learning algorithms, and predictive maintenance strategies. Contributions will cover various applications across various industries, addressing challenges such as early fault detection, accurate diagnosis, and reliable prognostics. By fostering interdisciplinary research and collaboration among researchers, engineers, and industry practitioners, this Special Issue aims to advance state-of-the-art machinery health monitoring. It seeks to contribute significantly to improving operational efficiency, reducing maintenance costs, and extending the lifespan of critical machinery components. Ultimately, the insights and innovations presented will pave the way for more resilient and sustainable industrial operations in the face of increasing complexity and technological advancement.

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### Guest Editor

Prof. Dr. Dimitrios Giagopoulos

Machine Dynamics Laboratory, School of Mechanical Engineering,  
Aristotle University of Thessaloniki, Thessaloniki, Greece

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### Deadline for manuscript submissions

closed (30 April 2026)



## Machines

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*Machines*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
machines@mdpi.com

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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.

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### 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

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#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
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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).