

# Special Issue

## Advances in Artificial Intelligence for Vibration-Based Life-Time Monitoring

### Message from the Guest Editors

This Special Issue aims to provide a platform for researchers and engineers to share their latest theoretical achievements and/or engineering experiences. This could facilitate the identification of critical issues and challenges for future studies in the field. The theoretical papers accepted into this Special Issue are expected to contain original ideas and potential solutions for resolving real problems. Topics include, but are not limited to, the development and application of AI in vibration-based methods, such as:

- Damage detection and localization;
- Non-destructive testing;
- Condition monitoring;
- Structural health monitoring;
- Damage diagnosis and prognosis;
- Predictive maintenance;
- Decision-making.

We look forward to your contributions.

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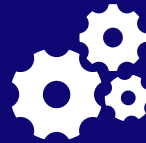
### Guest Editors

Dr. Vahid Yaghoubi  
Dr. Nathan Eskue  
Dr. Nick Eleftheroglou

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### Deadline for manuscript submissions

closed (30 June 2023)



## Machines

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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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### Author Benefits

#### High Visibility:

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#### 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).