

# Special Issue

## Rotor Dynamics and Rotating Machinery

### Message from the Guest Editor

This Special Issue invites high-quality research papers covering a wide range of topics related to rotor dynamics in rotating machinery. The papers are expected to provide newly developed ideas, analytical methods, and experiments that lead to a better understanding of the rotors' dynamics and their vibrations. Research areas may include, but are not limited to, the following topics:

- Rotor dynamics in the electric propulsion system;
- Rotor dynamics in gas turbines;
- Bearings design for high-speed applications;
- Modal updating in rotor dynamics;
- New methods for fault diagnosis techniques;
- Magnetic bearings and bearing-less machine developments;
- Active vibration control in rotating machinery;
- Elastohydrodynamic in bearings.

We look forward to receiving your contributions.

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### Guest Editor

Dr. Mohammadreza Ilkhani

Engineering department, University of Nottingham, Nottingham NG8 1BB, UK

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### Deadline for manuscript submissions

closed (15 January 2024)



## 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:

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).