Special Issue

Intelligent Machinery Fault Diagnosis and Maintenance

Message from the Guest Editors

This Special Issue aims to feature high-quality research papers in the realm of intelligent machinery fault diagnosis and maintenance. Therefore, we invite researchers, engineers, and experts to contribute the latest research work on intelligent machinery fault diagnosis and maintenance. These studies are expected to provide novel theories and algorithms, analytical models, and experiments that contribute to the field.   In this Special Issue, original research papers and reviews are welcome. Research topics may include, but are not limited to, the following topics:

- Novel machine learning algorithms for intelligent fault diagnosis;
- Novel methods to identify anomalies within large data sets;
- Advanced machine learning methods integrated with domain knowledge;
- Novel intelligent fault diagnosis with interpretable models;
- Digital twin technologies for intelligent fault diagnosis;
- Novel transfer learning approaches for intelligent fault diagnosis;
- Methods for determining maintenance strategies based on machinery conditions;
- Optimization methods for scheduling maintenance;

Guest Editors

Dr. Meng Ma

Dr. Haidong Shao

Dr. Xu Guo

Deadline for manuscript submissions

closed (31 May 2024)

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

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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).