Special Issue

Monitoring and Fault Identification Based on Artificial Intelligence Methods

Message from the Guest Editors

Condition monitoring strategies play an important key role in the fault identification in rotating machines leading to determining the current status and the future evolution/degradation of health conditions. Currently, Artificial Intelligence (AI) allows proposing novel monitoring structures to overcome recent challenges in the field of fault diagnosis. Therefore, this Special Issue is focused on but is not limited to the following topics:

- Condition monitoring;
- Fault detection and identification:
- Rotating machines;
- Complex signal processing applied to transient and stationary regimes;
- Feature calculation, feature extraction, and feature selection;
- Smart sensors for fault detection in Industry 4.0;
- Artificial intelligence methods.

Guest Editors

Dr. Juan Jose Saucedo-Dorantes

Engineering Faculty, Autonomous University of Queretaro (UAQ), San Juan del Rio 76806. Mexico

Dr. Miguel Delgado-Prieto

Automatic Control Department, Universitat Politècnica de Catalunya, 08222 Terrassa, Spain

Deadline for manuscript submissions

closed (30 November 2023)



Machines

an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 3.0



mdpi.com/si/142929

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

mdpi.com/journal/machines





an Open Access Journal by MDPI

Impact Factor 2.1 CiteScore 3.0



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, Calcada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2024).

