



Monitoring and Fault Identification Based on Artificial Intelligence Methods

Guest Editors:

Dr. Juan Jose Saucedo-Dorantes

Engineering Faculty,
Autonomous University of
Queretaro, San Juan del Rio
76806, Mexico

Dr. Miguel Delgado-Prieto

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

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

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.

Dr. Juan Jose Saucedo-Dorantes

Dr. Miguel Delgado-Prieto

Guest Editors





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within *Scopus*, *SCIE (Web of Science)*, *Inspec*, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/machines
machines@mdpi.com
X@Machines_MDPI