

Special Issue

Vibration Engineering, Reliability Assessment and Fault Diagnosis in Mechanical Systems

Message from the Guest Editor

We are pleased to invite you to contribute to our upcoming Special Issue on "Vibration Engineering, Reliability Assessment and Fault Diagnosis in Mechanical Systems". This Special Issue aims to highlight the latest research and technological advancements in vibration-based diagnostics, reliability modelling, and fault detection techniques. Topics of interest include, but are not limited to, the following: Vibration-based condition monitoring and fault diagnosis;

Structural dynamics and modal analysis for mechanical systems;

Advanced signal processing techniques for vibration analysis;

Machine learning and AI applications in predictive maintenance;

Non-contact and remote sensing for structural health monitoring;

Sensor networks and IoT for real-time diagnostics; Prognostics and health management (PHM) strategies; Reliability modelling and lifecycle assessment of mechanical components;

Emerging technologies for noise and vibration control; Case studies on aerospace, automotive, and industrial machinery applications;

Security and robustness in sensor-based fault detection systems. We look forward to your contributions!

Guest Editor

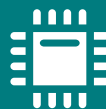
Dr. Hamed Kalhori

1. School of Mechanical and Mechatronic Engineering, University of Technology Sydney, Sydney, NSW 2007, Australia

2. Department of Mechanical Engineering, Faculty of Engineering, Bu-Ali Sina University, Hamedan 65167-38695, Iran

Deadline for manuscript submissions

10 January 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/237282

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)