

## 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!

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### Guest Editor

Dr. Hamed Kalhori

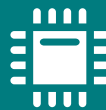
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### Deadline for manuscript submissions

31 October 2026



## Sensors

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## 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.

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### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
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