







an Open Access Journal by MDPI

Application of Dynamical Analysis and Sensing Technologies in Nondestructive Testing and Structural Health Monitoring

Guest Editors:

Dr. Liangliang Cheng

Group of Dynamics and Vibration, Engineering and Technology Institute Groningen, Faculty of Science and Engineering, University of Groningen, 9713 GZ Groningen, The Netherlands

Dr. Yunpeng Zhu

School of Engineering and Material Science, Queen Mary University of London, London E1 4NS, UK

Dr. Saeid Hedayatrasa

Mechanics of Materials and Structures (MMS), Department of Materials, Textiles and Chemical Engineering (MaTCH), Ghent University, Ghent, Belgium

Deadline for manuscript submissions:

30 November 2025



mdpi.com/si/162968

Message from the Guest Editors

Nondestructive testing (NDT) and structural health monitoring (SHM) play a critical role in ensuring the safety and reliability of structures in a variety of industrial sectors, such as transportation systems (including automotive and aerospace), infrastructure, nuclear plants, and many others.

This Special Issue aims to bring together excellent and talented researchers from around the world to showcase their advances in NDT and SHM methodologies for assessing the conditions of structures and systems in a wide range of engineering applications.

Topics of interest include, but are not limited to, the following:

- Structural health monitoring;
- System condition monitoring;
- Nondestructive testing;
- Dynamics and vibrations;
- Vibration and control;
- NDT sensors and techniques;
- Damage indicator;
- Sensor fusion;
- Artificial intelligence;
- Signal processing;
- Damage detection and localization;
- Uncertainty quantification:
- Time series modelling;
- Engineering a Scation ecial sue









an Open Access Journal by MDPI

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

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.

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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us