

## Special Issue

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

### 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 application.

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### Guest Editors

Dr. Liangliang Cheng

Dr. Yunpeng Zhu

Dr. Saeid Hedayatrasa

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### Deadline for manuscript submissions

30 November 2025



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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### 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

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

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