

## Special Issue

# Sensing and Data Elaboration in Structural Health Monitoring Technology

### Message from the Guest Editors

Nowadays, sensing technology is increasingly being investigated for health monitoring purposes, ranging from aerospace to civil structures applications. A proper selection of sensors (from fibres to pzt or graphene-based, etc.) and an optimal definition of network layout can affect the observability of the target structures significantly, therefore impacting the monitoring process sensitivity, accuracy, and reliability of results. Sensors can be bonded to or embedded within the reference system, providing data for real-time elaboration from manufacturing, assembly, verification tests, and operation. Suitable algorithms can make data processing smart by appropriate filtering and clustering. This Special Issue aims to put together original research and review articles on SHM applications that address industrial requirements including new technologies, solutions, applications, and new challenges in the field of SHM systems. **Keywords**

- sensor technology;
- sensors integration;
- network layout optimization;
- qualification and certification;
- real-time data processing;
- damage detection analysis

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### Guest Editors

Dr. Monica Ciminello

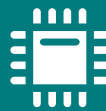
Dr. Ignazio Dimino

Dr. Antonio Concilio

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### Deadline for manuscript submissions

closed (30 September 2025)



## 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

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