

Special Issue

Recent Advances in Sensing and Data Centric Methods for Structural Health Monitoring and Resilience: 2nd Edition

Message from the Guest Editors

This Special Issue aims to underscore the importance of the latest developments in those areas and their collective impact on further progress in the fields of structural health monitoring and the resilience of infrastructure, mechanical and aerospace systems, as well as other engineering systems:

- New and novel innovations in structural health monitoring;
- IoT and smart infrastructure;
- The SHM of historic and ageing structures;
- AI-based methodologies;
- System identification;
- Surrogate models;
- Optimization techniques;
- The dynamic response prediction of highly nonlinear systems;
- Feature extraction schemes;
- The resilience of civil infrastructure in a life cycle;
- The resiliency and recoverability of structures and isolation–structure systems;
- The impact of SHM on urban infrastructure resilience;
- The utilization of data analytics schemes in structural control and seismic isolation systems;
- Data-driven methods used for structural damage identification;
- The reliability and safety of engineering structures;
- Distributed sensors and big data in SHM application;
- Damage identification to improve structural resilience;
- Image processing methods used for SHM.

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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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