

Special Issue

Recent Advances in Sensing and Data Centric Methods for Structural Health Monitoring and Resilience

Message from the Guest Editors

Potential research contributions pertaining to this topic include but are not limited to the following areas:

- New and novel innovations in structural health monitoring.
- IoT and smart infrastructure.
- SHM of historic and ageing structures.
- AI-based methodologies, such as deep learning neural networks, big data, digital twins.
- System identification.
- Surrogate models.
- Optimization techniques.
- Probabilistic methods, such as uncertainty quantification, variability assessment, especially combined with AI methods.
- Various machine learning tools.
- Dynamic response prediction of highly nonlinear systems.
- Feature extraction schemes.
- Resilience of civil infrastructure in a life cycle.
- Resiliency and recoverability of structures and isolation-structure systems.
- Assessing the impact of SHM on urban infrastructure resilience.
- Utilization of data analytics schemes in structural control and seismic isolation systems.
- Data driven method for structural damage identification.
- Reliability and safety of engineering structures.
- Distributed sensors and Big Data in SHM application.
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Guest Editors

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Deadline for manuscript submissions

closed (31 March 2023)



Sensors

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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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