

## 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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### Guest Editors

Prof. Dr. Mohammad N Noori

Dr. Marco Domaneschi

Dr. Naiwei Lu

Dr. Tianyu Wang

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**Deadline for manuscript submissions**



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### Message from the Editor-in-Chief

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