

Special Issue

Structural Health Monitoring of Civil Infrastructures

Message from the Guest Editors

The goal of this Special Issue is to discuss the latest achievements in the field of data processing procedures for SHM of civil infrastructures, and multidisciplinary contributions are especially encouraged. Potential topics for submissions include but are not limited to:

- Optimal sensor layout and automated damage feature extraction (including automated modal parameter identification)
- Influence of environmental and operational variability on SHM reliability and compensation methods
- Data mining and data fusion approaches for civil SHM
- Damage feature selection and comparative assessment of damage sensitivity of different damage indexes
- Approaches for damage detection, location, extension, and classification from response measurements
- Techniques for robust solution of the inverse problem in model-based SHM techniques
- Artificial intelligence in civil SHM
- Comparative assessment of data-driven and model-based SHM approaches in the context of a given damage scenario
- Residual life prediction
- Role of SHM in decision making, including early warning, emergency management, and support to structural maintenance in service conditions

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Deadline for manuscript submissions

closed (30 September 2022)



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