



Structural Health Monitoring and Sustainable Built Structures

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Deadline for manuscript
submissions:

closed (30 March 2023)

Message from the Guest Editors

Emission from construction industry is significant at all stages—construction, operation, and demolition. For effective management of the lifecycle of built facilities, reliable yet economical health monitoring is imperative. This Special Issue will report recent advances in structural health monitoring for sustainable built structures. It will unite disparate research outcomes in non-destructive testing, sensing technologies, signal processing, and lifecycle management towards the goal of sustainable built structures.

The Special Issue invites contributions, including, but not limited to, the following detailed topics:

- Structural health monitoring;
- Vibration-based structural deterioration models;
- Wave propagation for condition monitoring;
- Electrochemical techniques for condition monitoring;
- Sensing technologies and signal analysis for built structures;
- Data-driven IoT based condition monitoring;
- Field application and case studies;
- Numerical models and model updating techniques;
- Self-healing and self-sensing structural system;
- Life cycle assessment of built structures;
- SHM-based sustainability assessment.





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Message from the Editor-in-Chief

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