



Structural Health Monitoring of Civil Structures and Infrastructures

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Message from the Guest Editors

Dear Colleagues,

Civil structures and infrastructures are vulnerable to the extreme dynamic forces. In order to keep such structures safe and healthy, many modern structures are adopting vibration mitigation technologies. The further sensory information-based monitoring and damage detection of structures are gaining attention, as it saves money, time and lives, in contrast to manual monitoring. Due to the sensors and technological developments, real-time control and monitoring are also possible to implement for reducing the damage of important structures.

This Special Issue will aim to cover the following:
development of vibration mitigation technologies, e.g.,
active, passive and semi-active structural health
monitoring damage detection and identification system
identification strategy vibration mitigation and control
under dynamic loads structural life-cycle assessments
implementation of optimization algorithm for structural
performance enhancement data-based modelling.

Keywords

- structural health monitoring
- structural dynamics
- vibration control
- system identification
- optimization and modelling
- sensor fusion





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Message from the Editor-in-Chief

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