



Structural Health Monitoring of Civil Structures and Infrastructures

Guest Editors:

Dr. M. Shamim Miah

Institute of Engineering Geodesy
and Measurement Systems
(IGMS), Technische Universität
Graz (TU Graz), A-8010 Graz,
Austria

Prof. Dr. Werner Lienhart

Institute of Engineering Geodesy
and Measurement Systems, Graz
University of Technology,
Steyrergasse 30/II, A-8010 Graz,
Austria

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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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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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