Special Issue

Structural Health Monitoring of Civil Structures and Infrastructures

Message from the Guest Editors

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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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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