Special Issue

Development of Structural Health Monitoring, Structural Reinforcement and Structural Performance Evaluation

Message from the Guest Editor

Structural health monitoring (SHM) refers to the continuous monitoring of a structure based on different kinds of sensors to generate a structural response for evaluating its current structural performance and health status. The goal of this Special Issue is to provide a collection of articles that present a wide range of advances and innovative applications of SHM, reinforcements and structural safety evaluations. The articles may address, but are not limited to, the following subjects: Structural health monitoring;
Structural safety evaluation;
Sensors;
Structural reinforcement and retrofit;
Structural management;
Sensor optimization arrangement;
Nondestructive testing;
Machine learning and deep learning algorithms for data mining;
Other relevant topics For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/50EQBV6Z09

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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