Special Issue

Advances in Structural Health Monitoring and Damage Identification

Message from the Guest Editors

We are pleased to invite you to contribute to the Special Issue "Advances in Structural Health Monitoring and Damage Identification". Structural health monitoring (SHM) enables us to implement damage identification strategies for civil engineering structures using sensory systems. It provides additional information to evaluate the safety of structures throughout their life. Recent advances in sensors, intelligent data analytic tools and damage identification methods have opened a new paradigm for SHM as a data drive remedy for structural safety with the benefits of cost-effectiveness and real-time operation. The aim of this Special Issue is to bring together original research and review articles discussing new smart sensors, sensor networks, intelligent SHM techniques, approaches to damage detection, model updating and safety evaluation, and the design and implementation of SHM systems for practical civil infrastructure.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)

Buildings

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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