Special Issue

Recent Advances in Structural Health Monitoring of Buildings and Infrastructures

Message from the Guest Editors

Due to the rapid development of sensing technologies and data analysis methods in recent years, the structural health monitoring (SHM) of buildings and infrastructures has become exceedingly popular in the last decade. In this regard, this Special Issue “Recent advances in structural health monitoring of buildings and infrastructures” aims to present novel technologies and methodologies used to study buildings and infrastructures via SHM, such as sensing techniques, data processing, the machine learning of high-rise buildings, bridges, tunnels, and dams, etc. Both new methodologies and technological advancements are welcome, as well as specific laboratory or in situ experimental studies or validations. This Special Issue provides an integrated view of the problems associated with the health monitoring of buildings under construction and the structural damage identification of in-service buildings and infrastructures. warmly invites authors to submit their papers for potential inclusion in this Special Issue on structural health monitoring of buildings and infrastructures under construction and in operation.

Guest Editors

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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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