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Construction Process Monitoring and Structural Damage Identification for Buildings and Bridges

Guest Editors:

Prof. Dr. Minshui Huang
School of Civil Engineering and Architecture, Wuhan Institute of Technology, 693 Xiongchu Ave., Wuhan, China

Dr. Jianfeng Gu
School of Civil Engineering and Architecture, Wuhan Institute of Technology, 693 Xiongchu Ave., Wuhan, China

Deadline for manuscript submissions:
closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

The main aim of this Special Issue "Construction Process Monitoring and Structural Damage Identification for Buildings and Bridges" in *Buildings* is to provide a platform for the discussion of the major research challenges and achievements on the development of novel construction process monitoring strategies for improving the management efficiency of buildings under construction; innovative damage identification; and anomaly detection methods for accurately localizing and quantifying structural damage of buildings in serving an accurate and high-efficiency finite element model, which can update methods for building structures and structural analysis and condition assessment.

This Special Issue provides an integrated view of the problems associated with the achievement of health monitoring strategies for buildings under construction period and the trends in the development of structural damage identification methods for in-service buildings.

Prof. Minshui Huang warmly invites authors to submit their papers for potential inclusion in this Special Issue on structural health monitoring of buildings in the construction and operational period.

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Special Issue

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Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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