



Performance Evaluation of Concrete Structures and/or High-Performance Concrete/Cement-Based Composite Structures

Guest Editors:

Dr. Chang Wu

School of Civil Engineering,
Southeast University, Nanjing
210000, China

Dr. Jiajia Zhou

School of Mechanics and Safety
Engineering, Zhengzhou
University, Zhengzhou 450001,
China

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

All types of high-performance cement-based will play an important role in future building and infrastructure construction.

This Special Issue aims to present the recent progress and latest findings on the performance evaluation of traditional concrete structures or novel high-performance concrete/cement-based composite structures in terms of seismic resistance, durability, sustainability, resilience, etc. Potential topics include but are not limited to:

Concrete structures;

High-performance concrete materials and structures;

Resilient and sustainable structures;

Seismic performance evaluation;

Modeling and numerical simulation;

Structural design and performance;

Structural strengthening and rehabilitation;

Sustainable and resilient structures;

Mechanical properties and durability;

Lifecycle assessment.

Dr. Chang Wu

Dr. Jiajia Zhou

Guest Editors





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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Architecture)

Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
X@Buildings_MDPI