

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

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### 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.

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*Guest Editors*



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# Special Issue

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## 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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