

# Special Issue

## Numerical and Experimental Research on Steel-Concrete Composite Structural Systems

### Message from the Guest Editors

Compared with pre-stressed and steel-reinforced concrete structures, steel-concrete composite structures combine steel and concrete with shear connectors, providing the flexibility of steel and strength of concrete to solve the issues of large spans and heavy loads. Steel-concrete composite beams are widely used in engineering, owing to their excellent mechanical properties and economic benefits. This Special Issue aims to give an overview of the most recent innovations and advances in the field of steel-concrete composite structures and their applications. Theoretical research, experimental work, case studies and comprehensive review papers are invited for publication. Relevant topics to this Special Issue include, but are not limited to, the following subjects: Composite structural systems; Innovative forms of composite structures; Numerical models of composite structures; Intelligent analysis of composite structures; Experimental research on composite structures; Construction technology of composite structures; Application of high-performance materials in composite structures.

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### Guest Editors

Dr. Jizhi Zhao

Dr. Muxuan Tao

Dr. Liangdong Zhuang

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### Deadline for manuscript submissions

20 August 2025



## Buildings

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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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### Editor-in-Chief

Prof. Dr. David Arditi

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).