

# Special Issue

## Steel-Concrete Composite Structures: Design and Construction

### Message from the Guest Editors

Steel-concrete composite structures have shown promising mechanical performance, with improved construction speed and reduced material consumption. Therefore, steel-concrete composite structures may well suit the requirement of low-carbon construction, and may notably mitigate damage due to natural hazards. Recently, modern steel-concrete composite structures have been extensively studied and adopted for high-rise buildings, long-span bridges, long tunnels, and other complicated structures. Novel and innovative strategies for efficient design and rapid construction of steel-concrete composite structures are urgently needed. This Special Issue plans to give an overview of the most recent innovations and advances in the field of steel-concrete composite structures and their applications in diverse areas and countries. This Special Issue is aimed at providing selected contributions to advances in the design, construction, simulation, and maintenance of composite structures.

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### Guest Editors

Dr. Jiaji Wang

Dr. Xin Nie

Dr. He Zhao

Dr. Yingjie Zhu

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### Deadline for manuscript submissions

closed (31 October 2023)



## 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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#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).