Special Issue

Advances in Steel and Composite Structures

Message from the Guest Editors

In recent decades, steel and steel–concrete composite structures advanced significantly, driven by their superior mechanical performance, convenient construction, low resource consumption and economic benefits. This Special Issue, entitled “Advances in Steel and Composite Structures”, aims to provide selected manuscripts that present recent studies in the theory, design, test, numerical simulation and maintenance of steel and steel–concrete composite structures around the world. The scope of this Special Issue includes, but is not limited to, the following topics:

- Steel/steel–concrete composite structures with high-performance materials
- Novel types of steel structures
- Novel types of steel–concrete composite structures
- Experimental study of steel/steel–concrete composite structures
- Numerical study of steel/steel–concrete composite structures
- Design of steel/steel–concrete composite structures
- Innovation in structural analysis using artificial intelligence (AI)
- Construction technology of steel/steel–concrete composite structures
- Life cycle performance of steel/steel–concrete composite structures

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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