Special Issue

Advances in Steel–Concrete Composite Structures

Message from the Guest Editors

Steel–concrete composite structures can fully leverage the advantages of steel and concrete materials, featuring outstanding mechanical performance, convenient construction, and excellent economy. This Special Issue, entitled “Advances in Steel-Concrete Composite Structure”, aims to showcase state-of-the-art investigations into steel–concrete composite building and bridge structures worldwide. Relevant topics to this Special Issue include, but are not limited to, the following subjects:

- Innovation in new forms of steel–concrete composite structures;
- Steel–concrete composite bridge decks, girders, arch ribs, piers and pylons;
- Composite structures with UHPC and other high-performance materials;
- The construction technology of composite building and bridge structures;
- Temperature action, wind load and other environmental impacts;
- The long-term performance of composite structures;
- The long-life design theory of composite structures;
- Refined numerical simulation methods.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (20 October 2024)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/192486

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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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