Special Issue

High-Performance Steel-Concrete Composite/Hybrid Structures

Message from the Guest Editors

This Special Issue, entitled "High-Performance Steel-Concrete Composite/Hybrid Structures", aims to showcase the state-of-the-art investigations of steel-concrete composite/hybrid members and structures worldwide. 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:

- Innovation in the novel form of steel-concrete composite/hybrid structures;
- Resilience-enhancing strategies for composite/hybrid components and systems;
- Composite/hybrid structures with high-performance materials;
- Composite/hybrid structures under extreme conditions;
- Analytical and numerical models of composite/hybrid structures;
- Construction technology of composite/hybrid structures:
- Intelligent analysis and design of composite/hybrid structures;
- Life cycle performance of composite/hybrid structures;
- Application of composite/hybrid structures in civil infrastructure.

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Deadline for manuscript submissions

closed (31 July 2025)



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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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