

Special Issue

Research on the Structural Mechanics of Steel–Concrete Composite Structures

Message from the Guest Editors

Steel–concrete structures are a subject of great interest to researchers, as the past few decades have seen outstanding advances in their use in practical engineering. This Special Issue is dedicated but not limited to up-to-date research developments on experimental, theoretical, and computational works on steel–concrete structures, including failure and fracture analyses, dynamics and vibrations, seismic performance, connections, structural components, buildings and bridges, buckling and stability, design methods, analytical methods, fabrication and maintenance, durability performance, and new construction materials. This Special Issue also wishes to bridge the gap between theoretical developments and practical engineering for the benefit of academic researchers and engineers; therefore, contributions from the industry are also welcome.

Guest Editors

Dr. Han Su

School of Civil Engineering, Beijing Jiaotong University, Beijing 100044, China

Dr. Qikai Sun

School of Civil Engineering, Beijing Jiaotong University, Beijing 100044, China

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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