Special Issue

Advanced Studies on Steel Structures

Message from the Guest Editors

We are pleased to invite you to submit a manuscript to this Special Issue of *Buildings*, "Advanced Studies on Steel Structures". This Special Issue aims to provide a venue for communicating the most recent results of original experimental, numerical or theoretical research on steel structures in buildings, bridges, tunnels or other engineering facilities. The topics of interest are broad, covering the performance of steel structural materials, components, members, connections or joints, and frames or systems under normal and hazardous conditions (e.g., strong earthquakes, strong winds, fire and their impacts); mechanical modeling and numerical simulation approaches; the structural application of unconventional materials (e.g., high-strength steel, stainless steel, low-yield steel, weathering steel, and fire-resistant steel); and performance-based design approaches. High-quality case studies and critical literature reviews in the area of steel structures are also welcome.

Guest Editors

Dr. Fangxin Hu

Dr. Shujun Hu

Dr. Hai-Ting Li

Deadline for manuscript submissions

closed (30 April 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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