

Special Issue

Advancements in Large-Span Steel Structures and Architectural Design

Message from the Guest Editors

Large-span structures are widely used in many environments due to their remarkable architectural and structural function. Their structural benefits include their space arrangement, their light weight, and their better seismic resistance. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: Large-span structure performance; Structure stability; Progressive collapse; Space structure construction; Public building design; Constructional mechanics; Steel structure connection behavior; Fracture and fatigue; Impact or explosion. Additionally, applications and case studies related to large-span structures are appreciated, e.g., new buildings, new structures, new computational methods, new construction skills, or the reinforcement of structures, or parts of them, such as high-rise buildings, etc. Experimental and numerical studies on steel structures, new models for current codes, and the static, dynamic, or seismic responses of these innovative steel structures will also be included in this Special Issue. We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Jinsan Ju

Dr. Tao Lan

Dr. Haosong Chang

Dr. Yancheng Cai

Dr. Wei Zhen

Deadline for manuscript submissions

closed (30 May 2024)



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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

Prof. Dr. David Arditi

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2024).