Special Issue

Advances in Structural Techniques for Prefabricated Modular Buildings

Message from the Guest Editors

Modular structures have for many years demonstrated their practical value and advantages. As archetypes of industrialized and low-carbon construction, prefabricated modular buildings are developing towards high levels of integration and disaster resistance. Exploring how to further promote the application of such structures is a topic worthy of continuous in-depth research. In doing so, it is necessary for us to develop new ways of modular structural implementation, including exploring novel connections and smart assembly methods, enhancing these structures' resistance to earthquake and wind loads, establishing advanced methods for evaluating structural disaster-resistance, controlling structural failure under extreme conditions, etc. In response to these demands, we have launched this Special Issue and invite experts and scholars in the field to present their research results on this topic. We look forward to working together with colleagues in this field to advance the application of modular building structures and, more importantly, to contribute to an industrialized and low-carbon construction community.

Guest Editors

Dr. Yang Xiang

Prof. Dr. Liang Zong

Prof. Dr. Feng Xu

Dr. He Zhao

Dr. Shaojun Zhu

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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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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
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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