Special Issue

Advanced Structural Technology in Buildings

Message from the Guest Editor

In recent years, with the development of technology and engineering, the construction industry has increasingly developed towards industrialization, intelligence, and greenery. In the design or construction process of large building structures, by using innovative design concepts and advanced construction techniques, these building structures can be more stable, safe, and durable. Concrete 3D printing technology, BIM technology, modular design, adaptive architecture, and optimization design based on refined safety guidelines have become reliable means for the innovative safety design or construction of building structures. This Special Issue, entitled Advanced Structural Technology in Buildings, will provide an overview of existing knowledge on new design/construction technology for building structures. Relevant topics to this Special Issue include, but are not limited to, the following topics:

- The modeling and simulation of building structures;
- The high-performance analysis of structures;
- Structural optimization;
- Advanced design and construction technology;
- Intelligent construction technology.

Guest Editor

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Deadline for manuscript submissions

closed (10 March 2024)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/183113

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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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