



Prefabricated Spatial Network Structure

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Message from the Guest Editors

The purpose of this issue is to present the latest research results related to prefabricated spatial network structure. The thematic scope includes experimental research, numerical analysis and theoretical analysis of components and structures. Studies on methods for the parametric modeling, design and optimization method of prefabricated spatial network structure are also very welcome.

The main topics of interest for this Special Issue include the following:

- Development of novel assembly joints and structural systems in prefabricated spatial network structures.
- Experimental research, numerical analysis and theoretical analysis of components and structures.
- Studies on wind-resistant performance and anti-seismic properties of prefabricated spatial network structures.
- Methods for parametric modeling of prefabricated spatial network structures.
- Methods for the topological optimization of prefabricated spatial network structures.
- Methods for the shape-state optimization of prefabricated spatial network structures.
- Methods for the design of prefabricated spatial network structures.





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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.

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