



Timber, Bamboo and Hybrid Structures

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Message from the Guest Editors

To meet the low-carbon demands and promote sustainable development in structural engineering, bio-based buildings and structures, which include timber structures, bamboo structures, and even bio-based hybrid structures, are attracting more and more attention. With the rapid development of highrise and large-span bio-based structures, the research, fabrication, design, and construction in these sorts of structures meet a major challenge. Innovative techniques have been carried out for a long time.

This Special Issue—Timber, Bamboo and Hybrid Structures—will cover, but is not limited to, research topics and works focused on the following aspects:

- Timber structures;
- Bamboo structures;
- Timber–concrete composite structures;
- Bamboo–concrete composite structures;
- Hybrid steel-timber structures;
- FRP/steel-reinforced structural timber/bamboo elements;
- Mixed-species engineered wood elements;
- Hybrid joints for bio-based structures.

All the above aspects are strongly represented at present.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/8XJ7BW716V





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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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