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Performance Analysis of Timber Composite Structures

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Message from the Guest Editors

Timber structures have significant application prospects in high-rise and open-span buildings. Continuous innovative studies on timber composite structures are necessary in order to improve their structural behavior, long-term performance, fire resistance, as well as their vibration and sound insulation performance.

This Special Issue will showcase high-quality original research articles on the latest developments of timber composite structures with various combinations. The scope of the Special Issue includes (but is not limited to) timber–concrete composite structures, steel–timber composite structures, bamboo–wood composite structures, and the application of composite materials in timber structures. In addition, this Special Issue also provides space for review papers to provide insights into research status and development tendency.

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

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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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