Special Issue

Research on Timber and Timber–Concrete Buildings

Message from the Guest Editors

We aim to include the following research topics regarding pioneering investigations into timber and timber–concrete buildings in this Special Issue:

- Research on timber structures to be used as medium- and high-rise buildings.
- Research on connections, components or entire structures that combine timber and concrete.
- The structural (gravitational and lateral) performance of timber and timber–concrete structures).
- The non-structural (thermal, moisture, acoustic, fire, durability, life-cycle) performance of timber and timber–concrete buildings.
- The resilience of timber and timber–concrete buildings.
- The use of innovative bioproducts within timber elements, or in addition to them, or used in concrete that is to be mixed with timber.
- Innovative connections and assemblies of timber and timber–concrete structures.
- Parametric design, timber robotics, timber and 3D-printed concrete, design for assembly and disassembly, prefabrication, industrialization, and deployable timber and timber–concrete structures.
- The design and construction of affordable timber and timber–concrete structures.

Guest Editors

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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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