

Special Issue

Timber Structures: Latest Developments, Challenges, and Perspectives

Message from the Guest Editor

Building with timber has reached a top position on the agenda of policy makers to tackle global warming, one of the biggest challenges of our society. The timber building sector is expected to deliver economically and environmentally sustainable products and building solutions for parts of our built environment, in particular for multistory residential, office, and school buildings. This is an incredible opportunity for the whole timber sector, but also a challenge to deliver such solutions in due time. In recent years, the timber building sector has shown many innovative solutions in construction and has brought timber buildings back to our cities, in form of new builds and for urban redensification, by adding stories to existing buildings. This Special Issue will provide insight into some of these latest developments by presenting state-of-the-art research, developments, and innovations. Original contributions from academia on experimental, numerical, and analytical research as well as from practice on building solutions, experiences, and perspectives are encouraged.

Guest Editor

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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.

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