

Special Issue

The Application and Performance of Timber in Construction

Message from the Guest Editor

Modern timber engineering has become a competitive alternative to conventional building solutions in steel or reinforced concrete. The main reasons are the increasing professionalization of the design, production, and logistics along the whole value-added chain as well as ongoing research and development activities of timber products such as GLT, CLT, or LVL and the connection technology in form of self-tapping screws, glued-in rods, and prefabricated system solutions. This Special Issue will provide a state-of-the-art research compilation of basic works, development activities, and case studies with a significant contribution to the present and future success of timber members applied in construction. Contributions concentrating on design methods appropriate to the (timber) material involved, with a special interdisciplinary focus or dealing with the latest trends in timber engineering (hardwood application, prefabrication, systematization, etc.) are encouraged. For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/Timber_Construction

Guest Editor

Dr. Andreas Ringhofer

Institute of Timber Engineering and Wood Technology, Graz University of Technology, 8010 Graz, Austria

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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