

Special Issue

Design and Assessment of Timber Structures

Message from the Guest Editors

This Special Issue is devoted to the cutting-edge research regarding design and assessment in various modern or heritage timber structures. Combined with increased requirements with regard to efficiency in design, construction economy and structural performance optimization, it is necessary to study advanced theoretical frameworks for the design and assessment of timber structures. Wood structure research, including studies regarding key technologies such as the design of new types of wood structure systems, assembly technology, the performance of composite structures, and other studies based on topics such as durability evaluation, insect prevention, anti-corrosion and the flame retardance of structural components, ancient wood structure protection, etc., would help the promotion of the sustainable development of wood structures.

- fabricated timber construction
- steel-wood/concrete-timber composite structure
- heritage timber structure
- reinforcement
- assessment technology
- advanced design method
- intelligent construction and maintenance
- defect detection
- health monitoring system
- uncertainty

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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