



New Advances in Strengthening of Structural Timber

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Message from the Guest Editor

Dear Colleagues,

Increasing the load-carrying capacity and stiffness of timber structural elements is usually achieved by introducing reinforcements into elements, whether old or new. This reinforcement usually takes the form of rods, sheets (uni-, bi-, or multi-directional reinforced), laminates, or profiles. In order to increase efficiency, traditional passive reinforcement of the structure can be replaced by active reinforcement, the key advantage of which is introducing the initial precamber of the element. Much research has been conducted on wood strengthening, and many methods and technologies have been developed, but much remains to be done. This applies primarily to new wood-based materials and innovative timber structural elements as well as novel reinforcing materials.

This Special Issue covers new developments in the field of structural timber strengthening. Topics include theoretical and practical studies focused on the analysis, description, and optimisation of the novel methods and technologies which have been developed and applied recently for strengthening different types of structural elements made of wood.





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Message from the Editor-in-Chief

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