

COMPUTATIONAL MECHANICS OF WOOD MATERIALS AND TIMBER STRUCTURES

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ABSTRACT

This mini-symposium is considered to be a forum for scientists and engineers working in the field of computational wood mechanics and wood technology. The submitted contributions should refer to recent developments and advances on analytical and numerical aspects of the mechanical and physical behavior of wood and timber structures. Also contributions dealing with developments in the fields of wood processing and innovative wood composites are welcome.

Main topics of interest are e.g.

- numerical analysis of timber structures and structural elements,
- modeling of timber joints and connections,
- macroscopic constitutive modeling,
- fracture behavior of wood,
- large deformations and damage,
- moisture-induced deformations and moisture transport,
- wood drying and processing,
- engineered wood products,
- wood/glass and wood/steel composites.