

Special Issue

Timber Engineering in Infrastructure Construction: Advancements, Challenges, and Opportunities

Message from the Guest Editor

This Special Issue seeks contributions that advance the design, assessment, and delivery of timber infrastructure. We welcome studies on performance-based and reliability-based design; capacity models for members and connections; seismic, wind, and impact response; progressive collapse and structural robustness; serviceability under creep, moisture, fatigue, and vibration; durability, protection, and fire performance.

Submissions on novel products—including short-supply chain hardwoods, bio-based composites, hybrid timber–concrete/steel systems, and modular/prefabricated construction—are highly encouraged. We also invite work on inspection, non-destructive testing, and structural health monitoring, spanning sensing technologies, AI/ML, and digital twins, together with life-cycle assessment, carbon accounting, and cost–benefit analyses. Case studies, full-scale demonstrations, and contributions informing standards (e.g., Eurocode 5 evolution) are particularly welcome.

Guest Editor

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