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# Advances in Mass Timber and Timber Hybrid Lateral Load Resisting Systems

Guest Editor:

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Deadline for manuscript submissions:
**closed (30 September 2018)**

## Message from the Guest Editor

Dear Colleagues,

There is a great potential for timber to be used as structural material beyond the more common low-rise residential light-frame construction. The prospect of building larger timber structures comes with certain challenges, amongst them increased lateral force created by wind and earthquakes. Two of the most promising solutions to this problem involve the notions of “mass timber”, such as cross-laminated timber and hybrid constructions that strategically combine two (or more) materials, such as timber–steel and timber–concrete systems. This Special Issue will provide insight into state-of-the-art research on the challenges and innovative solutions of adopting mass timber and timber–hybrid structural systems. Considering the global need for more sustainable building solutions, this Special Issue is of international interest.

Dr. Tannert Thomas
*Guest Editor*

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## Editor-in-Chief

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## 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.

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