



Structural Assessment of Timber Structures

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Message from the Guest Editors

Timber structures are an important part of the architectural and cultural heritage. In fact, any action concerning the conservation, repair, retrofitting and monitoring of the built heritage cannot avoid understanding how timber structures behave, from the material level to whole structures, including their joints, to assess their present condition and to promote different strategies for interventions.

The aim of this Special Issue is to present an overview of the main steps involved in the structural assessment of timber structures, from diagnosis and assessment to the retrofitting of timber elements, joints and structures. Original contributions regarding experimental research and numerical analysis from the academic field as well as from practice are encouraged. The Special Issue will be based on the original contributions presented to the next SHATiS'19 International Conference on Structural Health Assessment of Timber Structures that will take place on 25–27 September 2019 in Guimarães, Portugal.





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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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