



Finite Element Analysis and Design of Hybrid Structures

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Deadline for manuscript
submissions:

closed (31 August 2022)

Message from the Guest Editor

Dear Colleagues,

Hybrid construction systems are gaining more and more interest in research laboratories, as well as in the construction sector. Hybrid systems can combine two or several construction materials, where the strength of one material is used to compensate for the weakness of another. Among the structural performance, the hybridization of construction materials can meet the objectives of sustainability in construction, as well as environmental and societal considerations through the well-known eco-design concept, which is increasingly popular. Hybrid construction combines the optimization of the costs and environmental impact of buildings during their construction process, as well as during their life cycle.

In recent years, despite the rapidly increasing interest in the hybridization of materials and the considerable research activity that has taken place in this area, several basic aspects related to failure mechanisms [...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/Analysis_Design_Hybrid_Structures

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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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