



Sustainable Innovative Solutions for Material Efficient Buildings

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Message from the Guest Editors

Reducing cost, time, and greenhouse gas (GHG) emissions in constructing new and in retrofitting existing building structures are key to improving the efficiency of the construction sector, which is a well-sought global challenge. Material-efficient design for new buildings aiming to minimise structural weight, as well as retrofitting solutions for existing buildings aiming to enhance their performance with least additive weight can achieve all the above reductions. In this context, this Special Issue focuses on the latest innovations in the material-efficient design of new and retrofitting of existing buildings aiming to promote environmentally and financially sustainable structures and intervention solutions while safeguarding structural resilience. Contributions from the construction, built environment and structural engineering disciplines addressing the design or assessment of new buildings and the retrofit of existing ones through reducing, minimising or redistributing structural materials usage to achieve lightweight, cost-effective and over-performing resilient structures are mostly invited.

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