



Additive Manufacturing of Construction and Building Materials

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Message from the Guest Editor

This Special Issue aims at increasing and widely distributing knowledge in the construction sector. Topics can address the additive manufacturing of construction and building materials applied to innovative systems; repair and renovation of existing structures; or restoration of patrimony projects of traditional or monumental buildings.

As such, additive manufacturing is strongly multidisciplinary, and the papers published in this Special Issue will promote several disruptive techniques of construction materials across several subjects related to material, structural and architectural innovations applied to innovative buildings, and also repair and renovation techniques for traditional or monumental buildings.

The aim of the papers published in this Special Issue is to prospect all experimental, numerical, analytical and also environmental and economical tools that help to uptake the barriers to promote additive manufacturing in the construction sector.

For scholars interested to submit papers to the Special Issue, please click “Submit to Special Issue” or contact Astoria Yao: astoria.yao@mdpi.com.





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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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