

Special Issue

3D-Printed Technology in Buildings

Message from the Guest Editors

3D printing is gaining increasing importance and has become an emerging digital construction technology. Traditionally conservative, the building sector is demonstrating innovation with this technology which is experiencing rapid expansion, encompassing a wide range of non-structural elements to structural load-bearing elements, and many growing projects around the world demonstrate the great potential of the technology in terms of lowering construction costs, reduction in construction waste, possibility of customized design, lightweight elements, and reduction of carbon emissions. As people recognize the reliability of real case studies, the potential of this technology to shape a more sustainable future is considerable. The Topic Editors encourage the scientific community to share their learnings that will help the building sector promote 3D printing technology. Topics include, but are not limited to, printable material development; mechanical properties; building applications; reinforcement strategy; design recommendations; sustainability; Finite Element Modeling.

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About the Journal

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.

Editor-in-Chief

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