Special Issue

Digital Technologies in Architecture, Engineering and Construction (AEC)

Message from the Guest Editor

The architecture, engineering, and construction (AEC) industry is undergoing a significant shift from conventional labour-intensive methods to automation through the use of digital technologies (DTs), and has played a significant role in this revolution. DTs are proven to bring various benefits to the AEC industry, such as enhanced visualization, better data sharing, reduced construction waste, increased productivity, sustainable performance, and safety improvements. However, the rapid growth in the application of DTs in the AEC industry still poses many challenges, and the resulting scientific issues still deserve the attention of scholars. This Special Issue invites authors to submit high-quality literature on topics related to digital technologies in architecture, engineering, and construction. We welcome original research or systematic literature reviews using survey research, mathematical modelling, qualitative research, and other methods. For more information, please visit the link to the Special
Issue website: https://www.mdpi.com/si/178071.

Guest Editor

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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.

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