Special Issue

Digital Technologies in Architecture, Engineering and Construction (AEC)—2nd Edition

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), bringing various benefits to the industry, such as enhanced visualization and productivity, better data sharing, reduced construction waste, sustainable performance, and safety improvements. However, the rapid growth in the application of DTs in the AEC industry still poses many challenges, with scientific issues deserving of scholarly attention. This Special Issue therefore invites authors to submit high-quality contributions on topics related to digital technologies in this sector. We welcome original research or systematic literature reviews using survey or qualitative research, mathematical modelling, and other methods. We sincerely appreciate your interest and look forward to your valuable contribution to making this Special Issue a success. We also wish to encourage you to share this invitation among your colleagues and any researchers who may be interested in participating.

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.

Editor-in-Chief

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