

Special Issue

Digital Technologies, AI and BIM in Construction

Message from the Guest Editor

The construction industry is rapidly transforming due to the use of digital technologies, artificial intelligence (AI), and building information modelling (BIM). These advancements are revolutionizing traditional practices, enabling smarter decision-making, improving efficiency, and enhancing sustainability. From design and planning to construction and maintenance, these technologies address challenges like safety risks, cost overruns, and collaboration inefficiencies. This Special Issue explores cutting-edge developments in digital technologies, AI, and BIM used in construction. It invites researchers and practitioners to share innovative methodologies, case studies, and frameworks that demonstrate the transformative potential of these tools in shaping a smarter and more sustainable built environment. For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/7Y80N12GSK

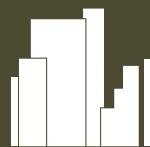
Guest Editor

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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

Prof. Dr. David Arditi

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