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Application of Innovative Technologies in Construction Project Management

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Message from the Guest Editors

The construction industry is increasingly adopting innovative digital technologies such as Building Information Modelling (BIM), AR/VR, and AI to improve productivity in managing construction projects and minimising risks.

Thus, this Special Issue focuses on identifying the status quo of the current developments in integrating construction project management and technologies and how the aforementioned digital transformation is currently reshaping the construction industry and construction project management practices.

Topics welcome in this Special Issue include, but are not limited, to the following:

- BIM
- AR/VR
- AI, machine learning, and deep learning
- smart construction technologies (e.g., Internet of Things, wearable sensors, Blockchain technology, digital twin technology, etc.)
- industry 4.0 and construction project management
- time and cost benefits of digital technology adoption
- opportunities and challenges in utilising digital technologies for construction project management
- digital transformation in construction project management practices
- digital transformation and sustainability in the built environment

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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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