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Application of Building Information Modelling in Construction Management

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Message from the Guest Editors

For more than a decade, BIM has arguably been one of the fastest-growing approaches in the construction industry and, as such, an important driver of the current industrial revolution commonly referred to as Construction 4.0, leading us towards the industry's fifth revolution. The dynamic connection of the BIM model with input–output real-time data exchange between construction sites and management provides a lean and productive approach to construction project management. The main goal yet is to establish a holistic, dynamic approach to integrating BIM in everyday applications to benefit the overall success of construction.

We invite you to contribute to this Special Issue of Buildings, devoted to the latest developments in building information modeling (BIM) and its applications in construction management.

For further reading, please follow the link to the Special Issue Website at:

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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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