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BIM-Based Construction Management

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Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Buildings* explores construction management using building information modelling (BIM). In recent years, BIM has mainly been used in the planning process, and data have rarely been shared with other parties involved in the construction process. However, the use of BIM also offers great benefits for contractors and construction management. For example, by applying the BIM concept, information can be shared almost in real time; however, so far, this is often only used in one direction (from design to execution). In reality, the information stored in the BIM is also often not updated continuously (which would also enable updates in construction certificate processes, for example), but only at the end of the construction phase.

This Special Issue seeks to further close these gaps. Contributions on methods, innovative concepts, and case studies dealing with the topic of construction (site) management are welcome, with a focus on collaboration and Open BIM.

Dr. Michael Riedl
Dr. Siegele Dietmar
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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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