Information Technologies in Construction: Present Status and Future Trends

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Message from the Guest Editors

As a result of the need, the adoption of information and communication technology within the construction sector emerged and has increasingly been used. With the advent of such intelligent information management tools, the construction industry has taken a giant leap towards embracing Industry 4.0 at a great pace. Despite the aforesaid advancement, it is seen that the construction industry is lagging far behind its counterparts in the adoption and further implementation of new and advanced digitalized tools. Hence, there seems to be room for further research on this fertile ground towards improving the information flow to alleviate such projects' complexity. Considering this urgency, this Special Issue provides a platform for the concerned practitioners and researchers to share their knowledge on the recent advancement in information technology adoption in the construction industry. Moreover, state-of-the-art reviews on the existing relevant methodological approaches and technologies are favoured.

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Special Issue

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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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