Special Issue

Information Technology in Building Construction Management

Message from the Guest Editors

Information technology has had enormous effects on the building construction in the last decade. The effects have resonated in various disciplines, such as organization efficiency, communication approach, and employee behavior. Due to the increasingly complex projects and urgent labor shortage, it is important for the industry to have a rapid transformation based on the specific applications of information technologies in building construction management. The aim of this Special Issue is to improve construction management efficiency through information technology. In recent years, the rapid evolution of information technologies such as artificial intelligence, big data, blockchain, cloud computing, etc. has accelerated the transformation of the construction industry. Information technology is widely applied in the planning, design, construction, and operation stages of buildings. However, the theoretical frameworks, empirical effect, and application difficulty need further identification.

This Special Issue encourages papers to explore information technologies in building construction management at the project, firm, or industry level.

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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

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