Special Issue

Knowledge Management in the Building and Construction Industry

Message from the Guest Editors

The activities related to the design, construction, operation and maintenance of buildings and infrastructure generate an enormous variety and quantity of knowledge. Currently, the majority of this knowledge is not capitalized in the building and construction industry due to a number of factors, such as the fragmentation of the industrial chain, the one-of-a-kind products used in the industry, the complexity of the construction site, the difficulties in collecting and reusing data from operational and maintenance activities, etc. This Special Issue titled “Knowledge Management in the Building and Construction Industry” aims at collecting research results that address the advancement in knowledge management practices in the building and construction industry. The building and construction industry is increasingly interested in technological developments such as BIM, GIS, machine learning, artificial intelligence, etc. Research works that combine the use of such technologies with the area of knowledge management are especially welcome.

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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.

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