Intelligent Multi-Criteria Decision-Making Methodologies in Building and Construction Management

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Message from the Guest Editors

Decision making is a key factor for achieving success in any discipline, especially in a field that requires handling large amounts of information and knowledge as in building and construction management. Most construction processes and procedures are a compendium of many different tasks, processes, and requirements, involving a great variety of factors and aspects to consider.

The main aim of this Special Issue is to explore the recent challenges and developments of intelligent MCDM approaches in buildings and construction management. Topics include but are not limited to:

- Decision analysis
- Uncertainty in MCDM
- New Modelling in MCDM
- Measurement of performance in construction
- Building Information Modelling
- Reliability and maintenance engineering
- Transportation and logistics insights through MCDM
- Application of MCDM in building and construction management

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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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