Special Issue

Intelligent Automation in Construction Management

Message from the Guest Editors

This Special Issue focuses on the integration of intelligent automation technologies in the construction management of buildings. As the building sector continues to embrace digital transformation, technologies such as artificial intelligence, robotics, digital twins, and IoT are increasingly being utilized to enhance the efficiency, accuracy, and safety of construction processes. Intelligent automation offers new possibilities for optimizing construction scheduling, resource allocation, site monitoring, and quality control. We invite original research articles and case studies that explore how these technologies are being integrated into building construction sites to improve management practices and project outcomes. This Special Issue emphasizes innovations that support the real-time control, coordination, and decision-making processes during the construction phase. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/OJI68T6D3O

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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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