Special Issue

Digitization and Automation Applied to Construction Management

Message from the Guest Editors

The construction sector is undergoing a digital revolution—merging automation, sensing, and intelligent systems to drive efficiency, quality, and sustainability. This Special Issue, "Digitization & Automation Applied to Construction Management," will spotlight the most recent advances in applying digital and automated technologies to civil engineering, construction, and facility management. We invite submissions of high-quality, cutting-edge articles relevant to our topic. Themes can cover a broad spectrum of research, including, but not limited to, the following:

- Building Information Modeling (BIM) and digital twin development;
- Artificial intelligence (AI) and machine learning for project analytics;
- Robotics and automated construction processes;
- Internet of Things (IoT) and sensor networks for real-time monitoring;
- Virtual, augmented, and mixed reality in design and execution;
- Lean construction and process digitization;
- Predictive analytics for safety, quality, and performance;
- Blockchain and data-driven contract integration;
- Energy-efficient intelligent facility operations;
- Cyber-physical systems and adaptive workflows.

Guest Editors

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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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