Special Issue

Digital Transformation of Project Management in Construction

Message from the Guest Editors

The rapid advancement of digital technologies is transforming the landscape of construction management, offering new possibilities for efficiency, sustainability, and innovation across the entire project lifecycle. From planning and design to construction, operation, and maintenance, the integration of computational methods, data analytics, and digital tools is reshaping traditional processes and enabling smarter, more connected built environments. This Special Issue aims to highlight cutting-edge research and practical developments at the intersection of construction management and digital technologies. Topics include, but are not limited to, the application of artificial intelligence, building information modeling (BIM), digital twins, Internet of Things (IoT), cloud and edge computing, robotics, and automation to improve construction productivity, quality, safety, and sustainability. We also welcome contributions that explore digital project management strategies, cybersecurity in construction systems, decision-support tools, and data-driven methods for performance monitoring and predictive maintenance.

Guest Editors

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Deadline for manuscript submissions

30 November 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/259998

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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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