

Special Issue

Digital Transformation and Innovation in AEC Management, Practices, and Processes

Message from the Guest Editors

Digital technologies are transforming the Architecture, Engineering, and Construction (AEC) sectors, enabling data-driven, efficient, and sustainable delivery. AI, Digital Twins, IoT, and advanced analytics are reshaping design, construction, and management—improving productivity, safety, resilience, and sustainability. This Special Issue, “Digital Transformation and Innovation in AEC Management, Practices, and Processes,” advances research on digital technologies in construction practices. Contributions are invited on DTs, AI, machine learning, and other emerging technologies supporting innovation in construction management and project delivery. We welcome original research, reviews, conceptual and theoretical papers, case studies, and applied evidence-based studies. Topics include digital innovation in construction processes, AI-driven decision support, data-enabled project management, smart construction technologies, and integrated digital platforms. This Special Issue provides a multidisciplinary platform for collaboration among researchers and practitioners to advance digital innovation in construction management worldwide.

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

Prof. Dr. David Arditi

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