Special Issue

Digital Technologies in Construction and Built Environment

Message from the Guest Editors

Digital technologies are revolutionizing the construction and built environment sectors, offering transformative improvements in productivity, quality, and safety. This Special Issue aims to provide a platform for researchers and practitioners to share their recent advances and applications of emerging digital tools, such as **artificial intelligence**, **digital twins**, **building information modeling**, **reality capture technologies** (e.g., LiDAR, drones) and **visual understanding** (e.g., image- and video-based activity recognition, safety monitoring, and site analysis), **Internet of Things**, **construction robotics**, **big data analytics**, **large language models**, **augmented/virtual reality**, and **automation in construction**. We are particularly interested in papers that explore how these technologies improve planning, construction execution, project monitoring, sustainability, and workforce productivity. We welcome the contribution of theoretical advancements, innovative case studies, and novel methodologies. We particularly welcome interdisciplinary perspectives and encourage submissions from academia, industry, and government. More details:
https://www.mdpi.com/journal/buildings/special_issues/11GA6D44BW

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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