Special Issue

The Current Status and Future Prospects of Automation in Construction

Message from the Guest Editors

The objective of this Special Issue is to bring together researchers, engineers, practitioners, and professionals to explore the current state of construction automation and its future prospects. The construction industry has long been recognized as an area with significant potential for automation. The rapid development of new technologies and their applications in construction has the potential to revolutionize the industry, making it more efficient, cost-effective, and sustainable. Automation in construction is a fast-growing field, as evidenced by the increasing number of research publications and practical implementations in recent years. This growth is driven by the need to address key challenges such as labor shortages, safety concerns, and environmental impacts, as well as to improve productivity and competitiveness in the global market. This Special Issue aims to consolidate the existing efforts in construction automation research and practice, showcasing the latest advancements in construction automation technologies, their applications in various construction domains, and the challenges and opportunities they present.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2023)

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/172785

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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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