

Special Issue

Construction and Building Technology: Latest Advances and Prospects

Message from the Guest Editors

The construction industry is currently undergoing a significant transformation driven by the “Fourth Industrial Revolution” and the urgent demand for sustainable development. This Special Issue, “Construction and Building Technology: Latest Advances and Prospects”, provides a platform for researchers to explore innovative solutions reshaping the built environment. We are pleased to invite submissions concerning digital transformation, specifically building information modeling (BIM), digital twins, VR/AR/MR, and the construction industrial internet. The scope encompasses advanced methodologies such as prefabricated buildings, construction automation and robotics, and the application of artificial intelligence. Furthermore, this Special Issue addresses sustainable construction practices through the use of smart building materials and energy efficiency strategies. Contributions focusing on lifecycle performance and safety via structural health monitoring are also highly encouraged to highlight the future trends of the sector.

Guest Editors

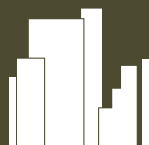
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About the Journal

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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