Special Issue

Advanced Studies in Smart Construction

Message from the Guest Editor

Smart construction has emerged as a transformative solution to longstanding challenges in the construction industry, including stagnant productivity, increasing safety incidents, and declining quality. In this context, smart construction is gaining recognition as a promising alternative to revolutionize the industry. This Special Issue, titled "Advanced Studies in Smart Construction", invites cutting-edge research and innovative solutions to address pressing issues and opportunities in this rapidly evolving domain. The focus is on integrating advanced technologies—such as artificial intelligence, the Internet of Things (IoT), robotics, and big data—into construction processes. Topics of interest include, but are not limited to, the following:

- Advancements and applications of smart construction technologies;
- Automation and robotics in construction;
- The role of AI and big data in construction decision-making;
- Enhancing safety on construction sites with smart technologies;
- Innovations in off-site construction;
- Workforce transformation in the era of smart construction;
- Government policies and the role of public institutions in smart construction.

Guest Editor

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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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