



The Digital Trend for Achieving Sustainable Building and Construction

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submissions:

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Message from the Guest Editors

The current trends in Architecture Engineering and Construction (AEC) involve the application of various digital technologies such as building information modelling (BIM), blockchain technology, augmented reality (VR)/virtual reality (AR), smart sensing, laser scanning, etc. Major research topics in construction management such as green building and sustainable construction are directly linked to sustainable building and construction, while business sustainability, project management, and building industrialization include the role of leadership in the transformation of AEC to influence sustainable building and construction.

This call for papers concerns the digital trends for achieving sustainable building and construction. It aims to present a collection of relevant scientific studies that associate digital technologies with the major AEC research topics to enhance sustainable building and construction. The recommended research areas include the application of digital technologies in:

- **Green buildings;**
- **Sustainable construction;**
- **AEC businesses;**
- **AEC project management;**
- **Building industrialization.**



Editor-in-Chief

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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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