Advanced Research on Intelligent Building Construction and Management

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Message from the Guest Editors

Dear Colleagues,

The development of intelligent construction is a core driving force to break through industry bottlenecks and accelerate construction industry transformation for the future. Intelligent construction integrates a series of advanced technologies and involves many areas of expertise in civil engineering, computer application, engineering management, mechanical automation, electrical power systems, clean energy, and other fields of knowledge. It should be noted that intelligent construction is inseparable from intelligent operation and maintenance. Reasonable management methods and operational control strategies significantly contribute to the construction industry with efficiency and low-carbon strategies resulting in comprehensive, coordinated, and sustainable development. Therefore, intelligent construction should consider various factors to obtain a balance between economic and environmental comfort. For more information, please view the special issue link:

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Special Issue

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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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