Special Issue

Innovation and Technology in Sustainable Construction

Message from the Guest Editors

Against the macro background of increasingly severe global environmental problems and scarce resources, the construction industry, as a significant source of energy consumption and carbon emissions, is in urgent need of realizing sustainable development. How to properly coordinate the balance between construction demand and ecological environment protection in the process of urbanization has become a core challenge for the construction industry. In order to promote the green transformation, sustainable development and overall progress of the construction industry, this special issue focuses on a number of key directions in the field of building construction, and invites researchers to actively publish their latest research results. The main topics covered in this special issue include, but are not limited to, the following:

- Low carbon construction methods;
- Green construction materials;
- Building carbon emissions research;
- Construction intelligent technology;
- Building information modeling;
- Sustainable construction management
- Construction safety management and risk control
- Infrastructure construction.

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

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