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Sustainable and Low-Carbon Building Technology: Education, Design, and Practice

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Deadline for manuscript submissions:

closed (28 May 2024)

Message from the Guest Editors

Dear Colleagues.

We are pleased to inform you that we have launched a new Special Issue of Buildings entitled "Sustainable and Low-Carbon Building."

Sustainable technology development is of great significance for the maintenance of the Earth's ecological environment. In order to ensure the low-carbon operation of buildings, engineers attempt to make progress in various aspects of their field, such as education, design and practice. By educating designers and builders, the waste of resources caused by human errors and omissions will be minimized. Through the optimization of building design and practice (e.g., BIM technology), resources can be utilized fully.

This Special Issue will publish high-quality, original research papers in the overlapping fields of:

- Carbon emission management of infrastructure in the whole process:
- · Construction technology and the management of prefabricated buildings;
- BIM technology and practice;
- Sustainable design technology for buildings;
- Repair and protection of traditional and ancient buildings;
- Educational innovation in sustainable building design;
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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 challenges, including maintenance. enormous interconnectivity, resilience, energy efficiency. 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

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