Special Issue

Integrating Sustainability in Building, Construction, and Energy

Message from the Guest Editor

The basis for successfully implementing a regenerative construction process is established during the procurement and tendering stages of activities related to a building's design, construction, and maintenance. In this context, decision-making plays a key role in achieving success across any discipline, particularly when managing large amounts of information and knowledge is essential. These initial steps are critical, as they not only minimize the environmental impact but also actively contribute to the restoration and regeneration of the surroundings. Consideration of sustainable energy use is urgently needed to maximize the reduction in energy consumption to achieve lower emissions in buildings; therefore, enhancing energy efficiency is vital for the present and future in construction and architecture. This objective can be achieved through a set of activities that address the following topics:

- Design management in buildings.
- Construction/project management.
- New digital technologies.
- Life cycle analysis.
- Passive building design.
- Software engineering and mathematical modelling in digital 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.

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