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Building Information Modeling and Sustainable Building

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Deadline for manuscript submissions:
closed (20 February 2025)

Message from the Guest Editors

For this Special Issue, we welcome original research articles and reviews. Research areas may encompass, but are not limited to, the following topics:

- BIM applications for environmental assessment;
- Integration of BIM and construction project management;
- Utilization of BIM-based models for evaluating building performance during the operational stage (comfort, energy, water, etc.);
- Leveraging 3D BIM for the analysis of sustainability in urban systems;
- Building information modeling applications in heritage conservation (HBIM);
- The incorporation of artificial intelligence algorithms into BIM for the comprehensive analysis of buildings' environmental, social, and economic aspects (AI-BIM);
- Applications of BIM–blockchain integration in the realm of buildings.

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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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