



New Challenges in Building Innovation Technologies and Management

Guest Editor:

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Message from the Guest Editor

This Special Issue of Buildings is proposed to gather a selection of contributions in the forthcoming Fourth Building and Management International Conference (BIMIC), which will be held in Madrid (Spain) from 16 to 18 November 2022 and has been organized by the School of Building Engineering (Technical University of Madrid).

Every year, the BIMIC brings together leading researchers, engineers and scientists in the sectors of architecture, engineering and construction, with the aim of discussing the most recent advancements in the field of management processes associated with buildings in any phase of their development. Conference potential topics include, but are not limited to:

- Management in construction processes;
- Prevention and safety;
- Accessibility;
- Sustainability and circular economy;
- Building Information Modeling (BIM) systems;
- Industrialization and prefabrication;
- Innovation and research in building technologies;
- The technology and management interface.





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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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