

Special Issue

Challenges Posed by Climate Change to the Building Industry

Message from the Guest Editors

This Special Issue is related to the Second International Conference on Construction, Energy, Environment and Sustainability (CEES 2023*), organized by Itecons, University of Coimbra (Portugal), in collaboration with CONST-NRC (Canada), taking place in Funchal (Madeira Island), Portugal, from 27 to 30 June 2023. The effects of climate change on buildings and building occupants is necessitating changes to building practice in order to counter the impact of increasingly frequent extreme weather events, such as intense winds, rain events of longer duration and greater strength, hurricanes, and prolonged periods of excessive heat. New as well as retrofitted buildings are now in need of updated performance requirements and more useful standards and related building codes..... This Special Issue is dedicated to studies focused on addressing challenges facing the building industry that may arise from the effects of climate change. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/4F4B65JCZ3

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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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