

Special Issue

Energy Consumption Prediction and Energy-Saving Technologies in Buildings

Message from the Guest Editors

We invite you to submit articles related to HVAC, IAQ, nZEB, heat transfer, modelling and simulation, heat exchangers, heat pumps, and optimisation. Works should be original, new, and not be previously published elsewhere. Publications should fall within the following topics: Energy Consumption Prediction and Energy-Saving Technologies in Buildings. Particular attention can be paid to the parameters of the air in the rooms, energy flows and balances in buildings, including solar and wind energy, and the bottom heat source of heat pumps. These can be related to measurement techniques, the analysis of results, theoretical models, as well as solutions and prototype constructions. Optimisation issues related to the presented solutions and structures are also within the scope of this Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



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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

Prof. Dr. David Arditi

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