Special Issue

Integrated Building Performance Simulation

Message from the Guest Editor

Building performance simulation programs have become an invaluable tool for informing policy strategies in different climatic zones, defining new energy-efficient designs, improving indoor comfort, and testing the impact of innovative building products on energy demand and emissions. These programs have advanced significantly over the last four decades and are able to quantify important metrics for the quality of the built environment. They also in some cases integrate occupant behaviour algorithms to quantify the impact of occupant actions on the energy performance of different building designs and also physiological models for local thermal and visual comfort analysis in relation to the physiology of occupants. Given the complex, dynamic and highly interactive energy and mass flow paths in the built environment, there is a continuous need for research on the development and validation of models that better represent these flow paths.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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