

Special Issue

Building-Energy Simulation in Building Design

Message from the Guest Editors

This Special Issue of *Applied Sciences* aims to present a collection of leading contributions on the subject of building-energy simulation in building design.

Advancements in building information modeling (BIM), machine learning, and design automation are reshaping how we approach building environments and energy efficiency. This Special Issue focuses on exploring innovative methodologies and technologies in building-energy simulation to enhance sustainable building design. By integrating data-driven techniques, such as machine learning, with BIM platforms, we can optimize energy consumption, reduce carbon footprints, and improve occupant comfort. Furthermore, automated design processes allow architects and engineers to assess multiple energy-efficient solutions during the early design phases. We invite research contributions that address cutting-edge simulation techniques, applications of BIM in energy modeling, and the role of machine learning in forecasting and optimization. This Special Issue aims to bridge gaps between theoretical advancements and practical applications, paving the way for a more sustainable and intelligent built environment.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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