



Building Energy Performance Modelling and Simulation

Guest Editors:

Dr. Joanna Ferdyn-Grygierek

Dr. Krzysztof Grygierek

Dr. Agnes Psikuta

Deadline for manuscript
submissions:

closed (15 September 2025)

Message from the Guest Editors

Climate change and rising user expectations for thermal comfort have led to increased energy consumption in buildings. Understanding the building-system-occupant relationship is key to reducing it. Building performance simulation (BPS) is an essential tool for reducing energy consumption in buildings. It can predict and optimize building performance, indoor environmental quality, and energy consumption, both at the design stage and in real operating conditions. We invite you to publish original articles on the theory, design, development, and applications of building and indoor environment quality modelling and simulation. Topics include, but are not limited to:

- Developments in simulation
- Modelling and simulation of:
 - Energy demand for HVAC systems
 - Thermal comfort and sensation
 - Indoor air quality
 - Visual comfort
 - Human behaviour
 - Greenhouse gas emissions
 - Life cycle costs
- Computational Fluid Dynamics (CFD) simulation
- Validation, calibration, and uncertainty
- Building Information Modelling (BIM) and digital twins for indoor environmental quality (IEQ) analysis
- New software development





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Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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