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Building Energy Performance Modelling and Simulation

Guest Editors:

Message from the Guest Editors

Dr. Joanna Ferdyn-Grygierek Climate change and rising user expectations for thermal comfort have led to increased energy consumption in **Dr. Krzysztof Grygierek** buildings. Understanding the building-system-occupant relationship is key to reducing it. Building performance **Dr. Agnes Psikuta** simulation (BPS) is an essential tool for reducing energy consumption in buildings. It can predict and optimize building performance, indoor environmental quality, and Deadline for manuscript energy consumption, both at the design stage and in real submissions: operating conditions. We invite you to publish original 10 December 2024 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

Specialsue

• New software development



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Message from the Editor-in-Chief

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