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# **Artificial Intelligence in Energy Efficient Buildings**

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Deadline for manuscript submissions: closed (31 August 2024)

## **Message from the Guest Editors**

We encourage researchers to contribute to this Special Issue entitled "Artificial Intelligence in Energy-Efficient Buildings" by considering novel methods and applications using either digital (e.g., building performance simulation) or empirical (e.g., real-time monitoring) data in areas including, but not limited to:

- Al methods for swift and accurate energy performance evaluation in the conceptual design and building operation phases.
- Machine learning for predicting building energy consumption (heating, cooling, lighting, HVAC).
- Deep learning for building operation and occupancy behaviour.
- Building energy optimisation with surrogate modelling.
- Improving energy efficiency via building-integrated photovoltaics using machine learning and optimisation algorithms.
- AI in the performative design of buildings.
- Al tools, techniques, and methods in computational form-finding strategies.
- Al in the performance of smart and liveable cities.











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### Message from the Editor-in-Chief

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