# Special Issue

# Advances in Built Environment Engineering: Ventilation, Air Conditioning, and Heating Technology

## Message from the Guest Editors

- We are pleased to inform you that we have launched a new Special Issue of *Buildings* entitled "**Advances in Built Environment Engineering: Ventilation, Air Conditioning, and Heating Technology**". This Special Issue aims to reveal the latest findings on the fundamental theory, key technologies, and scale applications of **ventilation**, **air conditioning**, and **heating technology** in built environments.
- Presently, the energy consumption associated with constructing built environments constitutes one third of the overall social energy consumption. Consequently, it is crucial to achieve low-carbon, energy-efficient, and resilient built environments. This can be accomplished by leveraging advanced ventilation, air conditioning, and heating technology, which aim to reduce fossil fuel consumption and minimize environmental emissions. This Special Issue emphasizes the importance of these efforts.

## Guest Editors

Dr. Lingjie Zeng

Dr. Xin Wang

Dr. Ruiyan Zhang

Dr. Han Zhu

## Deadline for manuscript submissions

30 October 2025

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# About the Journal

### Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

### Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).