

## Special Issue

# Application of Data-Driven Method for HVAC System

### Message from the Guest Editors

To confront the global energy shortage problem, the development of energy saving strategies and establishing the stable operation of HVAC systems are crucial steps forward. Taking a data-driven approach to HVAC system data analysis could be essential for identifying new solutions to these challenges. At present, big data technology, as a hot research topic, has found wide application in various fields. Data-driven methods are useful in many aspects of HVAC systems, such as in fault detection and diagnosis, energy consumption prediction, optimal control, and mining HVAC operation data to obtain valuable information. They may also be employed in in-depth experimental and environmental data analysis. The application potential of data-driven methods thus ought to be further explored. Topics of interest include, but are not limited to:

- Fault detection and diagnosis of HVAC systems;
- Energy consumption prediction;
- Model predictive control;
- Data mining and analysis of HVAC systems;
- Data mining and analysis of building environment;
- Energy conservation;
- Energy saving.

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### Guest Editors

Dr. Yabin Guo

Dr. Zhanwei Wang

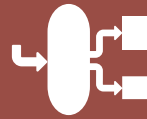
Dr. Yunpeng Hu

Dr. João M. M. Gomes

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### Deadline for manuscript submissions

closed (25 May 2023)



## Processes

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