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.

Guest Editors

Dr. Yabin Guo

Dr. Zhanwei Wang

Dr. Yunpeng Hu

Dr. João M. M. Gomes

Deadline for manuscript submissions

closed (25 May 2023)

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/117431

Processes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/journal/processes

About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))

MDPI