





an Open Access Journal by MDPI

Model Predictive Control of Heating and Cooling Systems

Guest Editors:

Dr. Wei Su

School of Energy and Power Engineering, Northeast Electric Power University, Jilin 132012, China

Prof. Dr. Xu Jin

School of Energy and Power Engineering, Northeast Electric Power University, Jilin 132012, China

Deadline for manuscript submissions:

28 February 2025

Message from the Guest Editors

Rapid societal and economic development has led to persistent growth in energy consumption, resulting in severe energy shortages and environmental pollution. The application of heating and cooling systems has garnered significant attention because it provides the necessary energy to maintain indoor environments at comfortable temperatures. The effective application of these methods is crucial for achieving energy savings, reducing carbon emissions, and aligning with environmental sustainability This issue invites contributions objectives. researchers working on various aspects related to the design, application, simulation, and optimization of heating and cooling systems that prioritize efficiency, environmental friendliness, and long-term sustainability.

Topics include, but are not limited to, the following:

- Innovative HVAC (heating, ventilation, and air conditioning) technologies;
- Power systems;
- Renewable energy integration;
- Energy storage system;
- Heat pumps, district heating, and cooling systems;
- Energy conversion and management.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

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

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.

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: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous*))

Contact Us