Special Issue

Model Predictive Control of Heating and Cooling Systems

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 objectives. This issue invites contributions from 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.

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