

Special Issue

Advanced Control Strategies for Buildings and HVAC Systems

Message from the Guest Editor

Higher requirements for the energy performance of buildings have prompted the emergence of new technologies that hold the potential to reduce the energy consumption of buildings while improving their indoor environmental quality (IEQ). A particular focus has been placed on the improvement in the operation of primary energy-consuming and indoor climate control equipment in buildings, the HVAC systems, through the use of controllers. The nonlinear, complex, and time-varying nature of HVAC systems has led to the development and implementation of various control approaches, including conventional, advanced, and intelligent controllers. This Special Issue will deal with novel and advanced control strategies for buildings and HVAC systems. Topics of interest for publication include, but are not limited to:

- Advanced building control strategies
- Advanced HVAC control strategies
- Optimal operation of the HVAC systems
- Integrated control strategies
- Predictive building control
- Application of IoT and/or AI for building systems
- Intelligent building environmental control
- Building energy management system
- Smart buildings
- Cognitive buildings

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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