



Modelling and Control of Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) Systems

Guest Editors:

Prof. Dr. Alessandro Beghi

Department of Information
Engineering, University of
Padova, 35122 Padova, Italy

Dr. Mirco Rampazzo

Department of Information
Engineering, University of
Padova, 35122 Padova, Italy

Deadline for manuscript
submissions:

closed (10 March 2021)

Message from the Guest Editors

Dear Colleagues,

The Guest Editors are inviting submissions to a Special Issue of *Energies* on the subject area of “Modelling and Control of Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC&R) Systems”. HVAC&R systems consume large amounts of energy and, not infrequently, their inefficient operation translates into poor performance and brings to an increasing environmental impact in terms of Greenhouse Gas (GHG) emissions. Indeed, HVAC&R systems inherent complexity together with non-stationary plant operating conditions and complex patterns of user demand, and their intrinsically non-linear characteristics, make the efficient operation of this kind of systems a difficult task. Besides the traditional approach, which improves the energy efficiency of HVAC&R systems through advanced hardware design, nowadays advanced control systems can improve both system efficiency and performance by mostly acting on software components, taking advantage of the recent developments of digital technologies...

Prof. Alessandro Beghi

Dr. Mirco Rampazzo

Guest Editors





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)