



an Open Access Journal by MDPI

Smart Energy Systems: Control and Optimization

Guest Editors:

Prof. Dr. Ramiro Barbosa

Institute of Engineering of Porto, Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal

Dr. Pedro Faria

GECAD—Research Group on Intelligent Engineering and Computing for Advanced Innovation and Development, LASI—Intelligent Systems Associate Laboratory, Polytechnic of Porto, 4200-072 Porto, Portugal

Deadline for manuscript submissions: closed (31 August 2022)



mdpi.com/si/69223

Message from the Guest Editors

This Special Issue focuses on emerging areas of energy systems for the purposes of control and optimization, with emphasis, among others, on the integration of renewable energy sources, management of distributed energy resources, smart energy system analyses, smart energy infrastructures, storage technologies, electric vehicles, demand response, smart grids, and energy forecasting. In this Issue, new theoretical and/or practical research results using all types of control and optimization techniques applied to smart energy systems are welcome. The use of state-of-the-art technologies such as machine learning, deep learning, reinforcement learning is also encouraged.

Keywords:

- Smart energy systems
- Smart grid
- Renewable energy systems
- Energy system modeling
- Building energy system optimization
- Distributed optimization
- Multi-agent control
- Energy management
- Demand response
- Distributed control strategies
- Distributed optimization theory
- Artificial intelligence control and optimization

Specialsue

• Energy forecasting

Prof. Dr. Ramiro Barbosa

Dr. Pedro Faria *Guest Editors*





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 (Engineering (miscellaneous))

Contact Us

Energies Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/energies energies@mdpi.com X@energies_mdpi