



Energy Management System and Multicriteria

Guest Editors:

**Prof. Dr. Plácido Rogerio
Pinheiro**

Graduate Program in Applied
Informatics, University of
Fortaleza, Fortaleza/Ceara, Brazil

**Prof. Dr. Ricardo de Andrade
Lira Rabelo**

Graduate Program in Computer
Science, Federal University of
Piauí, Teresina 64049-550, PI,
Brazil

Deadline for manuscript
submissions:

closed (20 January 2023)

Message from the Guest Editors

Most recent studies show that the main goal in energy management systems is to minimize the cost associated with electric energy consumption without considering the preferences/needs of end consumers. Therefore, it is possible to state that these works do not consider the actual difficulty of the problem. The HEMS, through the energy management controller, determines an optimized timeline for each appliance through optimization techniques related to, Artificial Intelligence, Business Analytics, and Business Intelligence, thus ensuring a more economic scenario for end consumers. This Special Issue aims to introduce a new thematic energy management system and multicriteria. Potential topics include but are not limited to the following:

- Innovations applied to information and communications technologies in-home energy management systems;
- New perspectives for the provision of the energy management system;
- Optimization tools for the elaboration of the energy management system;
- Optimization models for energy management system in smart cities and intelligent villages context;
- Optimization models for the energy management systems and the question of one-off instances of emergency.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)