Special Issue

Energy Management Optimization and Resource Allocation for Electric Vehicles and Quantum Computing in Smart Grids

Message from the Guest Editor

The objective of this Special Issue is to address and disseminate the latest results on various aspects of electrified mobility and its challenges and impacts on the Smart Grid. In the context of the Modern Power Grid, the success of the Connected Electric Vehicle (CEV) concept depends on its range capability and its battery energy management system in terms of its capacity, the charging and discharging rate, and the availability of the EV Supply Equipment (EVSE). Thus, batteries are expected to be the key to decarbonizing global transport and energy sectors. The CEV is co-locating the consumption and control of electricity based on its specific architecture and the capabilities of Information and Communication Technologies (ICTs). We invite original and unpublished submissions discussing innovative approaches to enhance energy management techniques in the Smart Grid and all relevant applications in ICTs, RESs, electric vehicles, transportation, power electronics, and power systems.

Guest Editor

Dr. Dhaou Said

School of Electrical Engineering and Computer Science, University of Ottawa, Ottawa, ON K1N 6N5, Canada

Deadline for manuscript submissions

closed (17 August 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/158711

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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)

MDPI