

Special Issue

Advances in Control of Photovoltaic and Microgrid Systems

Message from the Guest Editors

There lie a lot of challenges on the control of PV and microgrid systems for standalone and grid connected modes. Power electronic conversion is necessitated for integration of PV and microgrid systems to utility grid or operating these even in standalone configuration.

Effective operation of a PV or a microgrid system can be accomplished by exploiting advanced control techniques for ensuring stability and power quality.

Suitable topology, modelling and optimization of power electronic interface and control are essential to address the aforesaid challenges. The special issue will cover but not limited to:

- MPPT control of photovoltaic system
- IOT based Smart Solar Photovoltaic Monitoring System
- Power quality enhancement in Photovoltaic integrated Microgrid
- Control of microgrid system
- Forecasting of photovoltaic generation
- Power management and control in a PV, EV and battery integrated Microgrid
- Control and Stability analysis of grid-connected PV systems

Guest Editors

Prof. Dr. Bidyadhar Subudhi

School of Electrical Sciences, Indian Institute of Technology Goa, Farmagudi, Ponda, Goa 403401, India

Dr. Pravat Kumar Ray

Department of Electrical Engineering, National Institute of Technology Rourkela, Odisha 769008, India

Deadline for manuscript submissions

closed (21 April 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/105561

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://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)