energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 6.2

Optimization and Control of PV and Modern Power Systems

Guest Editors:

Dr. Krzysztof Lowczowski
Department of High Voltage and Electrotechnical Materials, Faculty of Environmental Engineering and Energy, Institute of Electrical Power Engineering, Poznan University of Technology, 60-965 Poznan, Poland

Prof. Dr. Zbigniew Nadolny
Department of High Voltage and Electrotechnical Materials, Faculty of Environmental Engineering and Energy, Institute of Electrical Power Engineering, Poznan University of Technology, 60-965 Poznan, Poland

Deadline for manuscript submissions:
closed (12 March 2024)

Message from the Guest Editors

Dear Colleagues,

The optimization of renewables and power networks, as well as increasing the share of renewables is a big challenge because of many technical issues among which one can mention the high voltage level, asymmetry, overloading of the power network, PQ issues like voltage variation, negative consequences of harmonics etc. In order to solve these problems, it is necessary to address many technical issues, including:

- Active optimization of the coordination between volt/var and power flow control devices, which can adjust to new operating conditions faster and better than existing systems;
- Effective utilization of novel functionalities and methods of integration of novel functionalities with the network (e.g., Q at night and other functionalities which often remain inactive);
- Specification of new energy sources and auxiliary devices functionalities;
- Development of the set of rules and control algorithms which in optimal network conditions would make it possible to reduce constraints put on renewables to maximize energy production

Dr. Krzysztof Lowczowski
Prof. Dr. Zbigniew Nadolny
Guest Editors

mdpi.com/si/157516

Special Issue

energies

IMPACT FACTOR 3.0

CITESCORE 6.2

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