

Special Issue

Voltage Control and Optimization for Power Distribution Networks

Message from the Guest Editor

Over recent decades, distribution networks have faced several changes; among them, the widespread installation of distributed sensors and SCADA systems is enabling operators improving voltage control in networks. The development of these new levers for DSO is needed to allow for the growth of distributed generation from fluctuating energy resources, the electrification of consumption, and the widespread use of electric vehicles. The motivation for this Special Issue lies in the need to collect the most recent and advanced studies on voltage control and optimization for power distribution networks. We invite all interested colleagues to contribute their state-of-the-art review papers or latest studies related to this topic. Topics of interest for publication include, but are not limited to, the following:

- Innovative voltage regulation frameworks;
- Optimization methods for voltage control;
- Distributed energy resources for voltage regulation;
- Flexibility energy resources for voltage regulation;
- Optimal reactive power planning;
- Voltage regulation schemas among network codes.

Guest Editor

Dr. Tommaso Bragatto

Department of Astronautics, Electric and Energy Engineering, Sapienza University of Rome, 00185 Rome, Italy

Deadline for manuscript submissions

closed (15 December 2024)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/209928

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)