

Special Issue

Electric Distribution System Modeling and Analysis

Message from the Guest Editor

Dear Colleague, Researchers try to discover generalization paths to arbitrary network topologies and include arbitrary device connections. Topics of interest for publication include, but are not limited to the following:

- Numerical techniques and models to conduct a wide range of studies in distribution grids
- Modeling of inverter-based distributed energy resources (IBDERs)
- Modeling of advanced distribution system equipment and smart grid assets
- Simulation of new distribution-level grid technologies
- Simulation of active distribution networks
- Integrated analysis of distribution grids, initialization of time-domain analysis from multi-phase load flow
- Quasi-static time-series models, dynamic and EMT type models
- Application of real-time simulation and hardware-in-the-loop methodologies in the analysis of distribution systems
- Multiphase and unbalanced analysis of distribution systems: load flow, steady-state short circuit, state estimation, dynamic and transient analysis
- Analysis of hybrid ac/dc microgrids
- Analysis of inverter-based grids

Guest Editor

Prof. Ilhan Kocar

Electrical Engineering, Ecole Polytechnique de Montreal, 5596 Montreal, Quebec PQ H3T 1J4, Canada

Deadline for manuscript submissions

closed (30 April 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/37201

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)