

Special Issue

Microgrids/Nanogrids Implementation, Planning, and Operation

Message from the Guest Editors

Topics of the Special Issue include, but are not limited to:

- Implementation of control and optimization techniques in grid-connected and islanded modes
- Peer-to-peer energy management systems in community microgrid;
- Peer-to-peer energy trading in microgrids;
- Power grid resilience enhancement through microgrid facilities;
- Self-healing strategies for resilience purpose;
- Power quality assessment and improvement;
- Microgrids transformation into virtual power plants;
- Mobility-aware vehicle-to-grid control in microgrids
- Building an (nanogrid-) integrated energy management and monitoring system;
- Maritime applications: shipboard microgrids, offshore platforms, and port electrification;
- Aerospace applications: satellite microgrids, spacecraft power systems, and moon/mars station microgrids;
- Applied IoT architecture and communication technologies for smart microgrids;
- Smart enabling technologies for the effective penetration of microgrids.

Guest Editors

Prof. Dr. Mohamed Benbouzid

Institut de Recherche Dupuy de Lôme (UMR CNRS 6027 IRDL),
University of Brest, 29238 Brest, France

Prof. Dr. S. M. Muyeen

Department of Electrical Engineering, Qatar University, Doha 2713,
Qatar

Deadline for manuscript submissions

closed (15 June 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/40616

Applied Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)