

## Special Issue

# Recent Advances in Smart Microgrids

### Message from the Guest Editor

This Special Issue is intended to disseminate new, promising methods and techniques to model, analyze, and control electric microgrids and to improve their stability, security, reliability, and quality of service. Topics of interest include, but are not limited to, the following:

- Application of microgrids in enhancing power grid resilience;
- Advanced solutions for demand forecasting at the service transformer and meter levels;
- Advanced control algorithms for demand side management in microgrids;
- Solutions for the efficient integration of electric vehicles with microgrids;
- Innovative algorithms for the control and dispatch of renewable energy resources;
- Decentralized and hierarchical controllers for electric microgrids;
- Energy markets within microgrids;
- Advanced power electronics circuits and controllers for interfacing distributed energy resources and demand responsive loads with microgrids;
- Stability analysis of microgrids under uncertain operating conditions;
- Forming ad hoc microgrids using mobile energy resources;
- Application of microgrids in electric service restoration;
- Microgrids for the electrification of remote areas;
- Cyber-security solutions for electric microgrids.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 November 2025)



## Applied Sciences

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### 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.

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### Editor-in-Chief

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