

Special Issue

Microgrids and Resiliency

Message from the Guest Editor

This Special Issue seeks to evaluate how renewable energy and storage can be incorporated alongside conventional generation in grid-connected or off-grid microgrids to meet critical loads at the lowest life cycle cost. This Special Issue welcomes research papers that would optimize system sizes as well as operating strategies to provide economic savings while grid-connected and to extend site survivability during outages. Finally, this Special Issue also welcomes papers that would quantify the resiliency impact of renewable energy and storage in energy systems. In order to encourage scientists and researchers to present their progress in the above fields, we have organized this Special Issue to publish the latest research on, but not limited to, the following topics:

- The economic viability of grid-connected PV, wind, and battery storage;
- System size evaluation;
- Battery dispatch strategies to minimize energy costs;
- Critical loads during a grid outage evaluation.

Guest Editor

Dr. Enrique Rosales-Asensio

Department of Electrical Engineering, University of Las Palmas de Gran Canaria, Campus de Tafira S/n, 35017 Las Palmas de Gran Canaria, Canary Islands, Spain

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).