

## Special Issue

# Microgrids: Innovations in Fault Detection, Security, and Addressing Challenges

### Message from the Guest Editor

This Special Issue aims to spotlight recent advancements in microgrid technology, with a particular focus on enhancing fault detection mechanisms, strengthening security protocols, and addressing the multifaceted challenges associated with microgrid deployment. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Novel fault detection algorithms for microgrid systems;
- Robust cybersecurity measures to ensure the integrity of microgrid operations;
- In-depth exploration of challenges and practical solutions in the implementation of microgrid technology;
- Explore cutting-edge fault detection strategies tailored for microgrids;
- Examine innovative security measures to fortify the resilience of microgrid systems;
- Investigate and discuss challenges inherent in the deployment and operation of microgrids, providing insights into potential solutions.

We look forward to receiving your innovative research contributions. Dr. Tala Talaei Khoei

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### Guest Editor

Dr. Tala Talaei Khoei  
The Roux Institute, Northeastern University, Portland, ME 04103, USA

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### Deadline for manuscript submissions

closed (15 February 2026)



## Electronics

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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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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