

Special Issue

Cyber-Physical System Applications in Smart Power and Microgrids

Message from the Guest Editors

This special issue explores cutting-edge advancements in cyber-physical systems (CPS) for modern power systems and microgrids, focusing on integrating computation, communication, and control to enhance efficiency, resilience, and sustainability. Submissions should address theoretical, experimental, or practical innovations bridging the digital and physical layers of energy systems. We invite researchers to submit original research papers and review articles with the following topics of interest, which include but are not limited to:

- Cyber-Physical Power Systems;
- Cyber-Physical Social Power Systems;
- Smart Grids;
- Microgrids;
- Energy Conversion and Storage;
- Electric Vehicles;
- Heat, Power, and Gas Networks;
- Renewables;
- Distribution;
- Digitalization;
- Data Analytics;
- Control Systems;
- Energy Markets;
- Optimization, Planning, and Scheduling in Smart Grids;
- Cyber-Physical Security in Power and Energy Systems;
- Cyberattacks on Power and Energy Systems;
- Reliability and Resilience of Integrated Power Systems;
- Cyber-Physical Power System Protection against Extreme Weather.

Guest Editors

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Deadline for manuscript submissions

15 December 2025



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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

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