

Special Issue

Advances in Renewable Energy Integration and Smart Grids

Message from the Guest Editor

Renewable energy sources have become indispensable for combating climate change and ensuring the security of energy supply. There has been an ever-growing global trend of transforming the electrical power sector to accommodate renewable energy integration and the challenges associated with it. The aim of this Special Issue is to showcase the most recent advances in exploiting the opportunities that smart grids offer to maximize the techno-economic benefits of renewable energy integration. Original research articles and reviews are both welcome. Research areas may include (but are not limited to) the following:

- Renewable and distributed energy generation technologies;
- Provision of ancillary services by renewable generation;
- Microgrids and virtual power plants;
- Demand-side management and demand response;
- Energy markets, energy economics, and policies;
- Energy conversion, storage, and power electronics;
- Control centers and SCADA;
- Dynamic grid stability and control;
- Cyber-physical and multi-energy systems;
- Resilience and reliability analysis of smart grids.

We look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2023)



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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.

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