Energy Sources Integrated with Power Distribution Systems Using Machine Learning Approach

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Message from the Guest Editors

Dear Colleagues,

The focus of this Special Issue is on understanding the evolving interplay between power distribution and energy systems, distribution energy sources, transportation systems, building technologies with the integration of ML approaches. This is about creating a cohesive, intelligent energy ecosystem that can adapt to the changing demands of DES-integrated urban power distribution systems and contribute to a more sustainable and resilient future. In this Special Issue, original research articles and reviews are welcome. The research areas may include (but are not limited to) the following:

1. Novel distributed and grid-interactive technologies;
2. Distributed energy sources integrated urban power system;
3. Electric–vehicle grid integration;
4. Smart energy and electric power systems;
5. Energy-efficient transportation systems;
6. Power distribution systems optimization;
7. Smart grid technologies;
8. Power system applications: forecasting, fault diagnosis, energy management, and power quality disturbances detection;
9. Stability assessment and control;
10. Sustainable power and energy systems.

We look forward to receiving your contributions.

Special Issue

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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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