Special Issue

Energy Sources Integrated with Power Distribution Systems Using Machine Learning Approach

Message from the Guest Editors

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:

- Novel distributed and grid-interactive technologies;
- Distributed energy sources integrated urban power system;
- Electric-vehicle grid integration;
- Smart energy and electric power systems;
- Energy-efficient transportation systems;
- Power distribution systems optimization;
- Smart grid technologies;
- Power system applications: forecasting, fault diagnosis, energy management, and power quality disturbances detection;
- Stability assessment and control;
- Sustainable power and energy systems.

We look forward to receiving your contributions.

Guest Editors

Dr. Haichuan Yang

Prof. Dr. Shangce Gao

Dr. Qina Yu

Deadline for manuscript submissions

closed (15 October 2025)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/196426

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

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



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.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

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).

