

## Special Issue

# Smart Distribution System Analysis: Optimization and Control

### Message from the Guest Editors

Electrical distribution networks have been rapidly transformed by the massive integration of renewable energy sources, energy storage systems, and active power consumers. One of the most important devices in the transformation of electrical distribution networks corresponds to power electronic converters since this interface has a network with power sources, energy storage devices, and active consumers and allows for its efficient controllability, flexibility, and management. The main aim of this [Special Issue](#) is to publish high-quality contributions that address the current issues related to more sustainable, safer, and more resilient distribution networks. Topics of interest include, but are not limited to, the following:

- Solar, wind, and emerging generation technologies;
- Power electronic converters;
- Metaheuristic and convex optimization;
- Energy storage technologies;
- Electric vehicle and recharging substations;
- Multi-phase distribution networks;
- Direct current distribution networks;
- Protective devices coordination;
- Graph theory applied to distribution networks.

[https://www.mdpi.com/journal/electronics/special\\_issues/Distribution\\_System](https://www.mdpi.com/journal/electronics/special_issues/Distribution_System)

### Guest Editors

Dr. Jesus C. Hernandez

Electrical Engineering Department, University of Jaen, Campus Las Lagunillas, 23071 Jaen, Spain

Dr. Oscar Danilo Montoya

Grupo de Compatibilidad e Interferencia Electromagnética (GCEM), Facultad de Ingeniería, Universidad Distrital Francisco José de Caldas, Bogotá 110231, Colombia

### Deadline for manuscript submissions

closed (15 February 2024)



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/si/121445](https://www.mdpi.com/si/121445)

*Electronics*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

[mdpi.com/journal/electronics](https://www.mdpi.com/journal/electronics)





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/journal/  
electronics](https://mdpi.com/journal/electronics)



## 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

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), CAPus /  
SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and  
Systems Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 16.4 days after  
submission; acceptance to publication is undertaken in 2.4  
days (median values for papers published in this journal in  
the second half of 2024).