

## Special Issue

# Advanced Optimization Algorithms for High Penetration of Renewable Energy Sources

### Message from the Guest Editors

In this context, this special issue aims to focus on the development of optimisation algorithms and problem formulations to facilitate the high penetration of renewable energy sources, such as solar PV panels, wind power generation, hydropower and biomass energy. Topics of interest include but not limited to:

- optimal sizing of energy storage systems
- scheduling resources
- real-time energy management
- demand-side management
- EV planning and scheduling
- stochastic optimisation algorithms
- meta-heuristic optimisation algorithms
- optimal power flow problems
- multi-objective optimisation algorithms
- energy storage systems
- microgrids
- smart cities
- optimisation problems
- real-time electricity prices.

---

### Guest Editors

Dr. Md Alamgir Hossain

Dr. Ripon Kumar Chakraborty

Prof. Dr. Stefano Squartini

---

### Deadline for manuscript submissions

closed (15 June 2022)



## Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[mdpi.com/si/67500](https://mdpi.com/si/67500)

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

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





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 6.1



[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), 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).