# **Special Issue**

## Advanced Technologies for Renewable Energy Systems and Their Applications

### Message from the Guest Editors

The variable nature of most renewable generation sources presents challenging stochasticity problems, which must be solved to enable a smooth energy transition. Moreover, new energy resources, players and business models are emerging, related, e.g., to the quick widespread of electric vehicles, the integration of energy storage systems and electricity market models. Consequently, advanced and innovative technologies are urgently required to support new and essential planning, management and operation models. This Special Issue calls for contributions related to renewable energy systems, addressing innovative perspectives and related problems. These include, but are not limited to, works that concern novel conceptual energy planning, management and operation models; new software solutions for renewable energy or related resources' integration; practical applications, case studies and demonstrations of advanced technological solutions. Keywords

- renewable energy
- electric vehicles
- energy storage systems
- energy system applications
- power system management
- energy forecasting

### **Guest Editors**

#### Prof. Dr. José Manuel Ribeiro Baptista

1. ECT–School of Science and Technology, University of Trás-os-Montes and Alto Douro UTAD, Quinta de Prados, 5000–801 Vila Real, Portugal

2. Power and Energy Systems Centre (CPES-INESC-TEC), UTAD's Pole, 5000–801 Vila Real, Portugal

#### Prof. Dr. Tiago Pinto

 Department of Engineering, University of Trás-os-Montes e Alto Douro, 5001-801 Vila Real, Portugal
INESCTEC, University of Trás-os-Montes e Alto Douro, 5001-801 Vila Real, Portugal

### Deadline for manuscript submissions

closed (15 October 2024)



an Open Access Journal by MDPI

### Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/171046

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

mdpi.com/journal/

electronics





an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



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 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).