



an Open Access Journal by MDPI

# Application of Advanced Control Theories to Power Electronics and Power Systems

Guest Editor:

#### Prof. Dr. Isabel Jesus

Department of Electrical Engineering, Institute of Engineering-Polytechnic of Porto (ISEP/IPP), Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal

Deadline for manuscript submissions: **31 August 2024** 

## Message from the Guest Editor

The main topics of this Special Issue include, but are not limited to:

Advanced power semiconductor devices;

Medium voltage power electronics for applications in renewable energy;

Energy storage and smart grid systems;

High-frequency-power-electronic conversion systems;

DC power grids;

Power system analyses;

Modeling and simulation of power systems;

Energy system optimization;

Electricity markets;

Distributed generation;

Artificially intelligent algorithms for power systems.



mdpi.com/si/177947







an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

# **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: CiteScore - Q1 (Control and Optimization)

## **Contact Us**

*Energies* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/energies energies@mdpi.com X@energies\_mdpi