

Special Issue

Power Systems Optimization and Renewable Energies Integration

Message from the Guest Editors

The permanent challenges facing power systems operation and control open the door for unremitting developments towards its optimal operation and configuration. In this regard, the decarbonization of the electric power generation will accelerate the transition to a “smarter grid”, with a large-scale integration of renewables, hand-in-hand with better demand-response mechanisms. To tackle these challenges, a popular cause of concern is the exploitation of high-end heuristics in the search for feasible solutions in challenging domains. These are commonly used to solve classical unit commitment, optimal power flow, hybrid energy systems sizing and operation, assemble MPPTs strategies for photovoltaic systems, applied control, and energy management and distribution.

Guest Editors

Prof. Dr. Silvio Mariano

Department of Electromechanical Engineering, University of Beira Interior, Calçada Fonte do Lameiro, 6201-001 Covilhã, Portugal

Dr. Maria do Rosário Alves Calado

Department of Electromechanical Engineering, University of Beira Interior, Calçada Fonte do Lameiro, 6201-001 Covilhã, Portugal

Deadline for manuscript submissions

closed (31 December 2019)



Sci

an Open Access Journal
by MDPI

CiteScore 4.5



mdpi.com/si/26047

Sci
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sci@mdpi.com

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





Sci

an Open Access Journal
by MDPI

CiteScore 4.5



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Claus Jacob
Division of Bioorganic Chemistry, School of Pharmacy, Saarland
University, D-66123 Saarbruecken, Germany

Author Benefits

High Visibility:

indexed within Scopus, and other databases.

Journal Rank:

CiteScore - Q1 (Multidisciplinary)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 37.1 days after submission; acceptance to publication is undertaken in 5.9 days (median values for papers published in this journal in the second half of 2024).