



Optimization and Control of Distributed Energy Systems

Guest Editors:

Dr. Janaína Gonçalves De Oliveira

Senior Lecturer, Department of
Electrical Engineering, Uppsala
University, Uppsala, Sweden

Prof. Dr. Leonardo Willer De Oliveira

Department of Electrical Energy,
Universidade Federal de Juiz de
Fera, Juiz de Fera, Brazil

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

Despite the benefits arising from the application of distributed energy systems in electrical systems, impacts on the reliability and stability of the electrical system are foreseen, affecting the maintenance of important parameters for the full operation of the network.

In this context, the active management and control of distributed energy systems can affect the development of smart and reliable power grids. The optimization and control of these elements may not only help to mitigate the challenges which are foreseen, but also improve the grid functionality in different aspects.

Therefore, this so-called Special Issue invites the submission of recent and novel work relating to the optimization and control of distributed power systems, which describe recent advances in the considering area, including new optimization methods, co-simulation or real-time simulation applied to control in power systems, active network management, microgrid management, supervisory control, among others.

Dr. Janaína Gonçalves De Oliveira
Prof. Dr. Leonardo Willer De Oliveira
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Antonio J. Marques
Cardoso**

CISE—Electromechatronic
Systems Research Centre,
University of Beira Interior,
Calçada Fonte do Lameiro, P -
6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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)*, *Inspec*, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Mechanical*)

Contact Us

Machines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/machines
machines@mdpi.com
X@Machines_MDPI