



Advances in Power Electronic Converters

Guest Editor:

Prof. Dr. Gerardo Vazquez-Guzman

Electronic Engineering
Department, Tecnológico
Nacional de México/ITS de
Irapuato, Irapuato 36821,
Guanajuato, Mexico

Deadline for manuscript
submissions:
closed (31 December 2023)

Message from the Guest Editor

Dear Colleagues,

Nowadays power electronic systems are widely spread all around the world with multiple applications such as, centralized generation, energy storage, distributed generation, electric vehicles, renewable power generation systems, illumination systems, hydrokinetic converters, traction converters, power supply systems, among others. Power converters are aimed to perform energy conversion with maximum efficiency, high power density, low cost, high power quality and high reliability in order to maximize the resource utilization. Therefore, power converters are continuously studied to improve their performance by means of the modification of the structure, control strategies modifications, changes of the pulse width modulation strategies, implementation using new technologies of power semiconductors, improvement on the reliability for power converters, among others.

Then, the present special issue intends to promote the generation of new knowledge devoted to the development of power electronic converters. Authors are encourage to submit original contributions related to advances on power electronic converters.

Prof. Dr. Gerardo Vazquez-Guzman
Guest Editor





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) / CiteScore - Q2 (Control and Optimization)

Contact Us

Machines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/machines
machines@mdpi.com
[X@Machines_MDPI](https://twitter.com/Machines_MDPI)