# Special Issue

# Digital Control of Power Electronics Converters

## Message from the Guest Editor

This Special Issue of *Applied Sciences* intends to collect and disseminate the latest research and development related to "Digital Control of Power Electronics Converters". The topics of interest include, but are not limited to:

- Predictive control of power electronics converters
- Sliding mode control of power electronics converters
- Adaptive control in power electronics converters and applications
- Fuzzy logic in power electronics converters and applications
- Neural networks in power electronics converters and applications
- Genetic algorithms in power electronics converters and applications
- Fault detection and fault-tolerant control of power electronics converters
- Power flow control and optimization algorithms
- Advanced modulation and control strategies
- Advanced grid synchronization techniques
- New power electronics converters
- Multilevel converters
- Matrix converters
- High voltage dc systems
- Smart grids
- Microgrids
- Energy storage systems
- Distributed generation
- Renewable energy systems
- Electric vehicles
- Power quality

## Guest Editor

Dr. José Gabriel Oliveira Pinto

Departamento de Electrónica Industrial, Universidade do Minho, Campus de Azurém, 4800-058 Guimarães, Portugal

## Deadline for manuscript submissions

closed (31 January 2020)

**Applied Sciences**

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/19398

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

mdpi.com/journal/applsci

# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

# About the Journal

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## 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, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:**

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )