

## Special Issue

# Control Strategies for Power Conversion Systems

### Message from the Guest Editors

Dear colleagues, The increasing penetration of renewable energy sources (RES) in the utility and introduction of new generation topologies as microgrids and distributed generation systems have increased the penetration of power converters in modern power systems. At present, power converters (PC) are used in a wide range of applications, such as electric vehicles, microgrids, renewable energy conversion systems, variable speed drives, power conditioners, high voltage direct current (HVDC) transmission, energy storage systems, traction systems, etc. Editors invite original manuscripts presenting recent advances in these fields with particular reference but not limited to:

- Novel modeling approaches and control strategies for PC based RES
- Novel modeling approaches and control strategies for microgrids and distributed generation systems
- Robust, predictive, nonlinear, passivity-based control of PC and RES
- Modeling and control of power systems with high penetration of RES
- Ancillary services for PC-based RES
- New control systems and topologies for large power RES applications
- Grid integration of large power RES
- New control systems for wind energy and PV conversion systems

---

### Guest Editors

Prof. Roberto Cárdenas Dobson

Electrical Engineering Department, University of Chile, Santiago, Región Metropolitana, Chile

Dr. Matías Díaz

Department of Electrical Engineering, University of Santiago de Chile, Santiago 9170125, Chile

---

### Deadline for manuscript submissions

closed (30 June 2020)



## Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/25543](https://mdpi.com/si/25543)

*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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





# Energies

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 7.3



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, 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, RePEc, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Control and Optimization)