

Special Issue

Advanced Control Techniques for Power Converters

Message from the Guest Editors

Nowadays, power electronic converters are pervasive in any kind of electrical power conversion, electrical power quality applications, renewable power generation and driving of electrical machines. Furthermore, the required dynamic performance of the converters in these applications is becoming more demanding making necessary the development and application of more sophisticated and new control techniques to meet these new requirements. Topics of interest for publication include, but are not limited to:

- New modelling approaches for power converters in grid applications.
- Nonlinear and passivity-based control of power converters.
- Sliding-mode and relay feedback-based control of power converters.
- Predictive control and optimization-based control of power converters.
- Continuous-time and discrete-time robust control.
- Advanced digital control of power converters.
- Distributed and networked control of power converters in grid applications.
- New modelling and control techniques for smart grids.
- Stability of grids with high penetration of power converters.
- Adaptive control approaches applied to power converters.

Guest Editors

Prof. Dr. Robert Griñó

Institute of Industrial and Control Engineering (IOC), Universitat Politècnica de Catalunya (UPC), Diagonal, 647, 11th floor, 08028 Barcelona, Spain

Dr. Santiago Cóbreces

Department of Electronics. University of Alcalá. Polytechnic school. Campus Universitario. 28805 Alcalá de Henares, Madrid

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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