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

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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.

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