Special Issue

Advances in Design and Control of Power Electronic Systems

Message from the Guest Editors

With the goal of Net Zero Emissions, the demands for electric vehicles and renewable energy resources have been increasing rapidly. Power electronics design and control techniques play a crucial role in electrified energy conversion systems. Advanced control and design technologies will enable high-performance power conversion to improve stability, efficiency, and power density. This Special Issue of *Energies*, "Advances in Design and Control of Power Electronic Systems", is intended to disseminate advanced design and control methods to improve the performance of power electronics systems. Topics of interest include but are not limited to the following:

- Model predictive control techniques for grid-connected power converters;
- Resonance damping solutions for grid-connected converters with high-order filters;
- Sensorless control techniques for motor drives and power electronics systems;
- Electric vehicle charger power conversion system design techniques;
- Modeling and control of renewable energy interfaced power converters;
- Optimal design for power converters to improve the efficiency and power density.

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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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