Special Issue

Advanced Technology for Power Conversion and Control

Message from the Guest Editors

Power electronics converters play a major role in various applications, such as renewable energy generation, electrical vehicles, battery energy storage systems, solid state transformers, etc., in efficient system management and power security, beyond simply interfacing between power sources and loads. Furthermore, the increased demand for green energy requires power converters to feature intelligent operation as well as higher power capacity. This Special Issue covers new architectures, topologies, control algorithms, and reliabilities for power converters. Novel architectures, such as multilevel and modular, need to be developed, as well as strategies for optimized design of prior art/new structures. Topologies and intelligent control algorithms for efficient and reliable systems are of interest to this Special Issue, as well as the reliability issue, which has emerged in order to ensure power security, and condition monitoring and fault-tolerant methods and active thermal control.

More information, please scan the QR code.

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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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