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Control and Topologies of Grid Connected Converters

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Deadline for manuscript
submissions:

closed (31 January 2022)

Message from the Guest Editors

Dear colleagues,

The fast growth of distributed generation systems (DGSs) and smart grids (SGs), including the increasing number of renewable energy sources (RES), active loads, and energy storages, requires the development of high-performance power electronics converters. Therefore, this Special Issue will focus on emerging grid-connected power electronic topologies, control, and applications. Topics of interest for publication include, but are not limited to:

- advanced grid-connected converters (e.g., WBG 2-level converters, cell-based multilevel grid converters);
- advanced modulation and control schemes;
- modeling and implementation of converters and control;
- grid filters, including inductive components, filter design, and active damping;
- parallel connected grid converters;
- special problems at weak grids and/or small (island) grids;
- solid state transformers/smart transformers; and
- active filters, active rectifiers, FACTS, Statcom, etc.



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Special Issue



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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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