Special Issue

Multilevel Inverters for Utility Applications

Message from the Guest Editor

Multi-level inverters play a vital role in the advancements of power converters. Generally, utility-interactive inverters converting DC power sources, such as photovoltaic or fuel cells, to AC grid systems gain considerable popularity as the energy crisis and environmental concern becomes the driving force for alternative energy. Furthermore, flexible AC transmission systems, custom power, and power quality have been hot topics because of the increasing power demand, the widespread use of non-linear electronic equipment, and the higher power quality requirements of sensitive loads. To maximize power transmission capability and to provide high power quality at the point of common coupling of a distribution system, power conditioning, including voltage regulation and reactive power/harmonic compensation, is an indispensably necessary technology. The aim of this Special Issue is to gather scientific contributions regarding multilevel inverters, in terms of new power converters, stability analysis, the design and control of multilevel inverters in the context of utility-based systems interfaced with energy systems and grid support functions, as well as other similar topics.

Guest Editor

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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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