Special Issue

Renewable Energy Management System and Multilevel Inverters

Message from the Guest Editors

Multi-level inverters are extensively used in applications for power conversion purposes. This highlights the importance of focusing on multiple alternatives challenges such as energy management, control strategies, and converter topologies. This Special Issue aims to cover recent advances in this field with the main focus of management, design, and control of multilevel inverters. This welcomes original research papers in the following fields: a) Integration of new trends in renewable energies for grid connection purposes based on multilevel inverters; b) Advanced modeling, design, and control of multilevel inverters; c) Novel topologies of multilevel inverter topologies in renewable energy applications; d) Artificial intelligence applications in power electronics converters for renewable energy applications; e) Optimal design of advanced multilevel inverter topologies to reduce the number of components; f)Highly efficient, reliable power electronics converters for solar and wind applications; g) Stability assessments for multilevel inverter structure in renewable energy applications; h) Energy management approaches in grids with the integration of renewable energy sources.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2021)



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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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