



Advanced Technologies in Integration of Distributed Energy Resources

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Message from the Guest Editors

Dear Colleagues,

Facing twin worldwide energy crises—global warming and climate change—the integration of and increase in distributed energy resource (DER) utilization based on renewable energy will play a significant role in helping conventional power plants to meet growing energy demand and allowing countries to pursue sustainable development with a secure transition.

With the fast development of advanced technologies in DER, the microgrid segment is growing very quickly. This technology not only allows for the modernization of the electrical grid and provides bidirectional power flow throughout the grid, but also enables power to be supplied to isolated sites.

The main objective of this Special Issue is to provide researchers and industrial entities interested in smart grid communities with the opportunity to present their research in the fields of power electronics, advanced digital control, power management and energy management systems, with an emphasis on recent trends. We are also keen to circulate knowledge related to energy markets based on the forecasting of renewable energy resources, the grid integration of electric vehicles, and real-time simulations.





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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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