

Special Issue

Recent Advances in Hybrid Power Generation Using Solar and Wind Energy

Message from the Guest Editors

Renewable energy is an important part of the electricity system of countries worldwide, with a high market share corresponding to wind and solar energy. For this Research Topic, we would like to encourage original contributions regarding recent developments in suitable technologies, ideas, and solutions for solar–wind hybrid systems, for example:

- Evaluating the impact of solar and wind generators penetrating power systems and solutions to improve operational stability.
- Advanced control of power converters of a hybrid renewable energy source to minimize adverse impacts on the power system.
- Different types of energy source combinations, modeling, power converter architectures, sizing, and optimization techniques used in hybrid renewable energy sources.
- Optimization of energy transaction strategies and energy management systems for microgrids to increase system reliability and reduce operation costs.
- Ancillary services, storage system solutions, and technology to support renewable energy.

Guest Editors

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Deadline for manuscript submissions

closed (16 October 2024)



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About the Journal

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.

Editor-in-Chief

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