Special Issue

Sizing and Allocation Strategies of Renewable Distributed Generations

Message from the Guest Editor

With the excessive increase in the electric energy and the limited conventional energy sources, there is a need for renewable energy sources to support the electricity sector. One of the best options to support the existing power systems is achieved by using distributed generation from renewable energy sources. The distributed generation and other types of FACTS can substantially improve the performance of the existing power systems by increasing their power capacity, reduce power losses, increase the reliability of the systems, and improve their power quality. This special issue is introduced to participate in this critical research area. The proposed special issue is welcome any researches in the different topics of a distributed generation especially on the different methodologies used for sizing and allocation of the distributed generation units using modern optimization algorithms, the use of different storage systems to support the power system during any abnormal conditions, the use of distributed generation to improve the power quality of the power systems, and the use of smart grid concepts to improve the reliability and cost of energy.

Guest Editor

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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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