



Distributed Power Generation: Energy Sources, Control, Energy Management and Power Electronics

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Message from the Guest Editor

Dear Colleagues,

Distributed generation is becoming more important in electrical power systems due to the decentralization of energy production. Within this new paradigm, new approaches for the operation and planning of distributed power generation are yet to be explored. Distributed generation can be defined as any small-scale power generation technology located close to a consumer, either for reducing reliance on the power grid or for feeding the power directly into the grid. It may also be used to support the performance of weak transmission and distribution systems. Generators in the Distributed generation system can include both renewable and non-renewable energy resources. This Special Issue has a focus on topics related to distributed power generation, smart grids, hybrid power systems with high renewable energy penetration, wind and solar power plant modelling and control, practical experience within high renewable energy penetration systems, energy storage systems, market design and operation, power electronic topologies (i.e., DC/AC inverters, AC/DC rectifiers, DC/DC converters, etc.), control systems and monitoring algorithms.





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Message from the Editor-in-Chief

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