



Special Session on Power Electronics in Distributed Generation Systems and Microgrids

Organized and co-chaired by
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A microgrid is a local grid consisting of distributed generators, energy storage systems, and dispersed loads which may operate in grid-connected or islanded mode. Power electronic converters are widely applied in microgrids to interface renewable/non-renewable resources and energy storage systems and to provide various control functionalities.

This special session will be concentrated on structure, control, reliability and diagnostics of power electronic converters applied in microgrids. Areas of interest include, but are not limited to:

- Distributed generation systems
- Distributed energy storage systems
- Islanded microgrids for rural and isolated areas
- Integration of renewable energy systems
- Configuration and control of AC and DC microgrids
- Modeling, control and management of microgrids
- Control schemes for power quality in microgrids including faults and low voltage ride-through
- Power quality conditioners (DVRs, coordinated tap changers, active/passive/hybrid filters, battery energy storage systems, etc.) in smart grids
- Active damping control methods for DGs, microgrids, and smart grids
- Fault tolerance in microgrids
- Hierarchical control of smart microgrids
- Reliability of microgrids
- Planning and development of microgrid projects

Important dates

Full Paper Submission: October 30th, 2015

Notification of Acceptance: January 5th, 2016

Final Paper Submission: January 15th, 2015

All the instructions for paper submission are included in the conference website:

<http://pedstc2016.iust.ac.ir/>