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Special Session on

"Advanced Power Electronics for Power Quality in Distributed Power Systems"

Organized by

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Call for Papers

The integration of nonlinear devices (motor drives, renewable energy generators) into the grid reduces its power quality, performance and reliability. Various power electronics converters for harmonic compensation were recently introduced. Great efforts are continuously deployed on the structural and control levels to achieve optimized cost-effective solutions for power quality enhancement. This session is intended to give an insight on the latest studies concerning the design and development of power electronics converters dedicated to power quality improvement in modern power systems.

Topics of interest include, but are not limited to:

- Active and hybrid power filters
- High power factor rectifiers
- Multilevel and matrix converters for grid-connectivity of renewable sources
- Unified power quality controllers
- PWM advanced control techniques in power quality systems
- Modeling methods and real-time simulations of power quality systems

- **IES Technical Committee Sponsoring the Special Session (if any): TC – Power Electronics (Control in Power Electronics subcommittee and Power Quality subcommittee)**

Accepted papers will be published in an IEEE proceedings volume and will be also submitted for the International Publication in *IEEExplore*