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**Special Session on**

**“Planning, control and protection for power quality and reliability improvement in smart grids and microgrids”**

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**Call for Papers**

Digital computational and communication technologies are the underpinning enablers of power systems' transition into smarter systems. On the other hand, microgrids are enabling frameworks to proliferate renewable energy resources in power distribution networks. Various topologies and control mechanism are being proposed to realize reliable, fast and cost-effective solutions for monitoring and control of loads and energy resources within microgrids. This session aims at giving an insight on the latest studies that focus on the design and development of microgrids, especially those dedicated to their real-time monitoring and control mechanisms, with an overarching objective of realizing smarter microgrids.

Topics of interest include, but are not limited to:

- Dynamic control of energy resources within smart microgrids
- Coordinated control of energy storages and electric vehicles within smart microgrids
- Real-time operational planning of smart microgrids
- Emergency and preventive controller for smart microgrids
- Long-term and short-term planning optimization of smart microgrids