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Special Session on

“Transformerless Grid-connected PV Systems”

Organized by

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Call for Papers

Theme: The transformerless photovoltaic (PV) systems are receiving more and more attentions in both academic research and industrial applications. The main advantages of these kinds of systems are small size, low cost and high efficiency. However, there are several technical challenges, such as dc injection, leakage current, which should be dealt with before successfully integrating them into the grid. The objective of this special session is to focus on the related issues regarding the transformerless PV systems, to provide an open opportunity for presentation and discussion of recently advanced technologies. Potential topics include, but are not limited to:

- Power converter topologies and system configurations for transformerless PV systems
- Modeling of transformerless PV systems and components
- Modulation and control of transformerless PV systems
- Leakage current reduction for transformerless PV systems
- DC injection elimination for transformerless PV systems
- Reliability and power quality of transformerless PV systems
- Grid codes and standards for transformerless PV systems
- Review, overview and technological roadmap of grid connected transformerless PV systems