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Special Session on

"Multilevel Inverters; Applications, Reliability, Fault Diagnosis, and Post-Fault Operation"

Organized by

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Call for Papers

NOWADAYS Multilevel Inverters (MLI) are widely used in many high-power applications, such as variable speed drives, renewable energy systems, HVDC systems, and electric vehicles. In addition to high-power application, due to the large number of semiconductors used in MLIs, these inverters are severely subjected to fault because of failure in semiconductors, driver circuits and/or DC-link electrolytic capacitors. Hence reliability issues and fault-tolerant ability are considered as two important requirements for MLIs.

The scope of the session covers papers including the application of multilevel inverters in medium-voltage and regenerative applications, reliability improvement, reliability-oriented design solutions, fault prediction and detection methods, and post-fault control of MLIs.

Topics of interest include, but are not limited to:

- *Application of Multilevel Inverters*
- *Reliability in Multilevel Inverters*
- *Fault prediction and detection in Multilevel Inverters*
- *Post-fault control of Multilevel Inverters*

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