

CALL FOR PAPERS

Special Session on Power Electronics based New Techniques for Improving Medium Voltage Electric Grid Performance



IECON 2018 - The 44th Annual Conference of the IEEE Industrial Electronics Society
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TOPIC OF THE SPECIAL SESSION

With the recent developments in the power semiconductor technology and the power converter architectures, more and more distributed sources are being connected to the medium voltage (MV) distributed grid through various power electronics technologies. Smart transformer, modular multilevel converters, high power electric vehicle fast charging stations, enhanced energy storage integration facilities, multi-terminal dc network are some examples of these research developments. In order to achieve fast and sustainable growth in the field of energy generation and distribution in MV distribution grid, cutting edge research investigation is necessary to provide continuous and reliable services to the customers with the optimal utilization of energy sources.

Topics of the Session

- Advanced MV converter architectures for improving reliability and efficiency
- Optimal power management and ancillary services
- Impact of power electronics devices on grid stability
- Operation during grid faults
- Operation and control of Smart transformer
- Fast electric vehicle charging station integration
- Energy storage and management
- MVDC electric distribution grid

IEEE IES Technical Committee Sponsoring the Special Session (if any):

- IEEE-IES Technical Committee on Renewable Energy Systems
- IEEE-IES Technical Committee on Smart Grid

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Author's schedule:

- Deadline for submission of special session papers
May 1, 2018
- Notification of acceptance
July 15, 2018
- Deadline for submission of final manuscripts
August 1, 2018