

Annual Conference of the IEEE Industrial Electronics Society (IECON 2022)

Special Session on

“Power Electronics based New Techniques for Medium Voltage Electric Grid”

Organized by

Chandan Kumar (chandank@iitg.ac.in)
Indian Institute of Technology Guwahati, India

Saad Mekhilef (smekhilef@swin.edu.au/saad@um.edu.my)
Swinburne University of Technology, Hawthorn, VIC 3122, Australia and
University of Malaya, Kuala Lumpur 50603, Malaysia

Hiralal M. Suryawanshi (hms_1963@rediffmail.com)
Visvesvaraya National Institute of Technology, Nagpur – 440010, India

Call for Papers

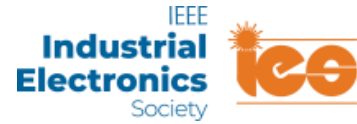
Theme:

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 interest include, but are not limited to:

1	Advanced MV converter architectures for improving reliability and efficiency
2	Optimal power management and ancillary services in MVDC/MVAC grid
3	Impact of power electronics devices on MV grid stability
4	Operation during grid faults
5	Solid state transformer based MVAC and MVDC solutions
6	Fast electric vehicle charging station integration
7	Energy storage and management
8	MVDC electric distribution grid

Good quality papers may be considered for publication in the IEEE Trans. on Industrial Electronics, subject to further rounds of review.



Sponsoring IES Technical Committee(s):

IEEE IES Technical Committee on Renewable Energy Systems <https://res.ieee-ies.org/>

Submissions Procedure:

All the instructions for paper submission are included in the conference website: <https://iecon2022.org/>

Deadlines:

Full paper submission:	April 15, 2022
Paper acceptance notification:	June 17, 2022
Camera-ready paper submission:	July 29, 2022

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