CALL FOR PAPERS

Special Session on

High Power Converters: Topologies, Modulation and Control Strategies, and their Applications

ICIT 2019-The 20th IEEE International Conference on Industrial Technology, Feb. 13-15, 2019, Melbourne, Australia

TOPIC OF THE SPECIAL SESSION

High Power Converters: Topologies, Modulation and Control Strategies, and their Applications

Outline of the session

With technology advancements in semiconductor devices such as integrated gate commutated thyristors (IGCTs) and high voltage insulated gate bipolar transistors (IGBTs), modern high-power medium voltage drives are increasingly used in transportation, traction, steel and metals, mining, petrochemical, and other industries to conserve electric energy. The effort of the researchers and industry has led to a rapid development of high power converters, modulation techniques and control strategies, and practical drive configurations. In addition, other topics, such as traction converters at DC mains and AC mains, efficiency improvement, new applications have been attracting many researchers and industry experts.

We encourage all researchers and engineers working in this area to submit papers to this Special Session.

Topics of interest include, but are not limited, to the following:

- ✓ Technical Requirements and Challenges;
- ✓ High-Power Semiconductor Devices;
- ✓ Operation of Series Connected Devices;
- ✓ Operation of Parallel Connected Devices;
- ✓ High Power AC Drives;
- ✓ Multi-module Cascaded Matrix Converters;
- ✓ Transformerless Medium Voltage Converters;
- ✓ High Power Multilevel Converters;
- ✓ High Power Z-Source Converters.

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Author's schedule:

- Deadline for submission of special session papers: **1August 2018**
- Notification of acceptance: **1 November 2018**
- Deadline for submission of final manuscripts: **1 December 2018**

For additional information please visit http://www.ieee-icit2019.org