

# Annual Conference of the IEEE Industrial Electronics Society (IECON 2021)

## Special Session on

## “Advances of Modular Power Electronics Converters for Transportation Applications”

### Organized by

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## Call for Papers

### Theme:

The future renewable-generation injected and transportation related microgrids e.g. electrical power distribution system (EPDS) of the more electric aircraft (MEA), marines and V2G systems, draw a lot of attention among the power experts as it simultaneously belongs to the areas of smart power distribution. The increasing energy demand challenged the power distribution systems with strict requirements of safety and reliability. Moreover, the weight, volume and footprint of the onboard power supply systems are also strictly required. The development of power generation, distribution, storage, advanced control and information communication has laid great foundation for the future electric grids. To improve the weight/volume consumption and efficiency as well as increase the safety and availability of the future electric grids, modular power converters including multi-level, multi-phase and multi-port configurations also help to build better system modularity, scalability and control flexibility.

**Topics** of interest include, but are not limited to:

- Modular power converter topologies, modulation, and control such as multi-level, multi-phase and multi-port configurations;
- Transportation electrification including more electric aircraft (MEA), ships, electric vehicles and locomotives;
- Smart grids, micro-grids, and utility applications with renewable and energy storage systems;
- Energy conversion for information technology and communication systems;
- Converter and subsystem with wide band-gap device applications;
- Modelling and control of components, converters and systems.

**Submissions Procedure:** All the instructions for paper submission are included in the conference website: <https://attend.ieee.org/iecon-2021/>

### Deadlines:

Full paper submission:	June 25, 2021
Paper acceptance notification:	July 30, 2021
Camera-ready paper submission:	Aug. 27, 2021

### Reviewers

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