

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

Special Session on

“Multi-phase machines and their controls”

Organized by

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Call for Papers

Theme:

Multi-phase (more than three-phase) motor drive systems have attracted much attention in recent years due to some inherent advantages which they offer when compared to the three-phase counterpart. The new developments in areas such as electric ship propulsion, more-electric aircraft, electric and hybrid electric vehicles, electric locomotive traction and renewable electric energy generation has invoked the interest amongst the researchers. These applications invariably require the electric machine, which is traditionally a three-phase motor. The multi-phase machines with power electronic based converters along with advanced control strategies are creating niche technological advancement to improve reliability and energy efficiency of these energy conversion systems.

Topics of interest include, but are not limited to:

1. Multi-phase Electrical Motor Designs
2. Converter topology for the multi-phase motors.
3. Sensorless control of multi-phase drives
4. Fault-tolerant operation of multi-phase drives.
5. Robust control of multi-phase drives
6. Industrial standards for the Multi-phase drives
7. Linear multi-phase drives application.
8. Multi-phase drives for Mechatronics applications
9. Condition monitoring and fault diagnosis of the multi-phase drives.

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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