

CALL FOR PAPERS



Special Session on *<Control of Multiphase Drive System>*

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Control of Multiphase Drive System

Multiphase motor drive systems (number of phases >3) have been extensively investigated in recent times for its reliability and fault tolerant structure, and redundancy capabilities. The control flexibility of the multiphase drive systems offer high performance motor drives. Several new control strategies are used, proposed by the researchers, and applied to multiphase drive system to continuously improve the performance. This special issue will attract the papers related to different control aspects focused to multiphase motor drive systems and the topics of interest are:

Topics of the Session

- Multiphase variable speed drive systems for applications in electric and hybrid electric vehicles, electric traction, electric ship propulsion and 'more-electric aircraft' and other high power industrial needs.
- Advanced and non-linear control application to multiphase motor drives such as adaptive control, sliding mode control, back-stepping control and predictive control.
- Various control system, modelling issues and simulation of multiphase drives.
- Design of multiphase machines and multiphase power converters.
- New modulation techniques and control approaches for multiphase power converters including modulation of multiphase matrix, two-level and multi-level multiphase power converters.
- Speed sensor-less control of multiphase motor drives.
- Multiphase motor drives condition monitoring and fault diagnosis.
- Fault tolerant operation of multiphase motor drives etc.

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Author's schedule:

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

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