CALL FOR PAPERS

Special Session on "Advanced Control and Health Diagnosis of Electrical Machine Drives"

2021 Australian Universities Power Engineering Conference (AUPEC 2021)
September 26-30, 2021, Perth, Australia



ORGANIZED AND CHAIRED by

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SPECIAL SESSION DESCRIPTION (no more than 150 words)

Electrical machines are widely used in industry, renewable energy and transportation areas. In the past decades, a considerable amount of research efforts have been made on the development of mechanical structure, sensors and inverters for electrical machine drives. Nonetheless, with the emerging new devices and inverter topologies, further technical improvements are needed for the modern electrical machine drives. Meanwhile, the requirements of light weight, excellent efficiency and high reliability also bring new challenges to the electrical machine drive systems. This special session will focus on these new technologies and applications for electrical machine drives and control, such as the model predictive control, wind turbine generator control, permanent magnet synchronous machine (PMSM) traction drives, wide-band-gap device based machine drives, system reliability and health diagnosis, adaptive control schemes, etc.

TOPICS COVERED

- Model predictive control for motor drive systems
- Control and design for permanent magnet synchronous machine drives
- Control of wind turbine generators
- Wide-band-gap devices for motor drives.
- Reliability and health diagnosis of motor drive systems

Schedule:

Deadline for submission of the paper (s) to the Easychair submission site by selecting the desired special session- May 15th, 2021
Notification of acceptance – June 1st, 2020
Deadline for submission of final manuscripts through Easychair- August 1st, 2021

For additional information please visit https://www.aupec2021.org/

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