

CALL FOR PAPERS

Special Session on “Power Electronics Interfaced Energy Storage Systems for Smart Grids and Electrification Transportation”

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)

The deployment of renewable sources and e-mobility is reshaping the configuration of smart grid and transportation system. Energy storage system (ESS) is recognized as a major solution for the related issues such as intermittency of renewable energy and the demand of durable power sources. Power electronics interfaced ESS plays a key role to ensure safe operation, enhance system performance, monitor system states, and prolong lifetime. This special session aims to summarize and share the recent advances of various energy storage systems in terms of different aspects: power electronic interface, accurate modeling method, management and control techniques in smart grid and transportation system.

TOPICS COVERED

- Advanced Energy Storage System Designs to Improve the Stability of Smart Grids and Electrified Transportation System.
- Modeling, State Estimation, and Fault Diagnosis for Various Types of ESSs.
- Hybrid Storage Systems Optimization and Operation for Efficient Energy Solution.
- Fast Charging Method for EVs.
- Innovative Control and Energy Management Algorithms in Smart Grids and Electrification Transportation.
- New Parameter Identification Approach for High Power Energy Storage Systems in Smart Grids and Electrified Transportation System

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

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

Deadline for submission of final manuscripts through EasyChair- August 1st, 2021

Supporting Universities:

