

CALL FOR PAPERS

Special Session on “Energy Storage Systems for Microgrids and Smart Grids”

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 power engineering industry is under a significant paradigm shift. Ambitious research and development departments all around the globe are working towards better ways to obtain, store, and use electrical energy. The scope of the special session encompasses selected topics and emerging technologies in electrical power engineering, including components, systems, and processes used in electrical power generation, transmission and distribution and applications in energy conservation and efficiency. Electrical power generation, transmission and distribution includes solid-state energy conversion technologies for mobile, wireless, and other applications; power conversion systems associated with energy conversion, storage, and interface between electric and non-electric energy conversion, including power converters and drives; Applications in energy conservation, efficiency, and resilience include industrial transformation of energy, manufacturing operations, local grid connections, use and management, local generation and co-generation, next-generation power grid based on advanced communication technologies and/or intelligence systems, etc.

TOPICS COVERED

- New Energy Storage System Designs to Improve the Stability and/or Reliability of Microgrids and Smart Grids.
- Power Electronics Enabled Energy Storage Systems for low cost, high efficiency, and high resiliency.
- New Monitoring and Management Algorithms to Prolong the Cycle Life of Energy Storage Systems in Microgrids and Smart Grids and Other Electrical Systems.
- Control, Optimization, and Management of Power Converters and Power Grids With High Power Electronics Penetration.
- Wireless Power Transfer Technologies.

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

- Next-Generation AC/DC Microgrid Clusters and Islanded Minigrid Based on Advanced Communication Technologies.
- Applications of Intelligent System to Power Electronics Converters and Power Systems.
- Advanced Semiconductor and Packaging Technologies for Power Conversion Systems.
- Other Emerging Topics in Consumer Electronics, Electric Vehicles, and Data Centres.

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

Supporting Universities:

