

CALL FOR PAPERS

Special Session on “Advanced Design, Control and Application for Microgrid”

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)

Microgrids integrate renewable generation resources, energy storage systems and loads to the grid. The significant benefits associated with microgrids have led to continuous efforts to expand their penetration in electric power systems. Although technical developments of microgrids are progressing at a rapid pace, there are still many challenges in the efficient design, control, and operation of microgrids. To further enhance the performance and reliability of microgrids, it is necessary to apply new design, novel control algorithms and innovative protection methods in microgrids. This special session focuses on the new design and control technologies relevant to microgrids. It includes but is not limited to the following topics:

TOPICS COVERED

- New Power Electronic Converter Modulation Scheme and Control Methods for Power Converters in Microgrids.
- Innovative Microgrids Topology/Architecture that Effectively Integrates Distributed Generation, Energy Storage System and Diverse Loads.
- Novel Control Strategy in Microgrids to Improve Operational Stability and/or Reliability.
- Innovative Algorithm and Energy Management Strategy for Microgrids to Optimize System Operation and Economics.

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/>

Supporting Universities:

