

This consists of a comprehensive analysis of the state of the art in shipboard microgrids, port microgrids, aircraft microgrids, airport microgrids and space microgrids. Future ...

The first part is the type of network, which has not been discussed in any of the previous research on airport microgrids and electric aircraft. Most of the references have ...

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This paper presents the development of an airport bipolar DC microgrid and its interconnected operations with the utility grid, electric vehicle (EV), and more electric aircraft (MEA). The microgrid DC-bus voltage is ...

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The aircraft is therefore an isolated grid, where the power must be generated and distributed, ensuring the stability and a high power quality. Although this microgrid shares similarity with ...

Safety issues related to the electrification of more electric aircraft (MEA) need to be addressed because of the increasing complexity of aircraft electrical power systems and the growing number of safety-critical sub ...

The first part is the type of network, which has not been discussed in any of the previous research on airport microgrids and electric aircraft. Most of the references have focused on urban or ship microgrids, and ...

can be considered a microgrid. An electric aircraft with on-board power generation will require an efficient power distribution system. Effective management of this microgrid will lead to weight ...

A current source converter (CSC) is a promising topology for interfacing aircraft generators with the onboard DC microgrid. In this paper, a hybrid predictive control is proposed for the CSC with ...

This paper is about frequency load control in airport microgrids, including renewable sources and electric aircraft. Here, for frequency stability, self-adaptive fuzzy cascade controller is used alon...

The More Electric Aircraft (MEA) initiative aims to increase the penetration of electrical systems in aircraft to

decrease weight and further develop overall efficiency and ...

We imaged two different RC model aircraft during the data collection: a Kadet T-40 trainer aircraft and a Viper 500 sport-racing aircraft. The Kadet aircraft, pictured above-right in Fig. 2, weighs ...

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