

Title: Consensus Algorithms and Microgrids

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In this paper we have developed a distributed control algorithm, obtaining current sharing and voltage regulation in DC microgrids. Its convergence properties are analytically investigated, and a case ...

A novel power consensus algorithm for DC microgrids is proposed and analyzed. DC microgrids are networks composed of DC sources, loads, and interconnecting lines.

In this paper, a consensus-based algorithm is presented to achieve proportional power sharing and regulation of weighted geometric mean of bus voltages in DC microgrids with ZIP (constant ...

To improve DC microgrid's robustness facing complex work environments, this paper proposes a current consensus algorithm based adaptive droop control strategy for hierarchical ...

In this article, a consensus-based algorithm is presented to achieve proportional power sharing and regulation of weighted geometric mean of bus voltages in dc microgrids with ZIP (constant ...

This paper presents a framework for the coordination of heterogeneous groups of microgrids using consensus algorithms.

To address this issue, a power sharing control method based on consensus algorithm is proposed in this paper to realize the sharing control of fundamental power and harmonic power ...

Therefore, the main goal of this paper is to provide the fundamentals of multi-agent systems and consensus protocol to the electrical engineering community, and an overview of its ...

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