

Title: Microgrid secondary voltage

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To address this issue, in this paper, we propose a two-stage reinforcement learning secondary control method for DC microgrids, which can effectively suppress the bus voltage ...

Abstract--This paper proposes a novel safety-critical secondary voltage control method based on explicit neural networks (NNs) for islanded microgrids (MGs) that can guarantee any state inside the ...

This paper proposes an online data-driven Koopman-inspired identification and control method for microgrid secondary voltage and frequency control.

Abstract: The energy management system (EMS) secondary voltage control design, integrating state-of-charge (SoC) equalization and droop control in redundancy-based dc microgrids (MGs), is ideal for ...

The stable operation of DC microgrids requires robust secondary control strategies capable of ensuring accurate power sharing and bus voltage regulation, even under adverse conditions.

Abstract--In this paper, we address the problem of frequency and voltage control in microgrids in which generators and loads are interfaced via grid-forming (GFM) inverters.

y voltage control (SVC) for microgrids using nonlinear multiple models adaptive control. The proposed method is comprised of two components. Firstly, a linear robust adaptive controller is designed to ...

Comprehensive simulation results underscore the superior performance of the proposed control approach compared to traditional secondary controllers, particularly in navigating voltage ...

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