Title: Automatic voltage control of microgrid
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Abstract:This paper introduces a distributed secondary control algorithm for automatic generation control (AGC) and automatic voltage control (AVC), which aims at matching area generation to area load ...

This paper introduces a new controller named TPIDD 2 for the first time and employs it to control frequency and voltage simultaneously in interconnected microgrids.

Frequency and voltage deviations are two main problems in microgrids, especially with the increase in the penetration level of renewable energies. This paper presents novel techniques to ...

Abstract--This paper proposes a novel nonlinear decentralized voltage controller for constrained regulation of meshed AC Mi-crogrid networks with high penetration of constant power loads.

This paper presents novel techniques to apply combined the load frequency control and automatic voltage regulation of two interconnected microgrids. The two microgrids are operated by...

This paper presents an adaptive voltage controller for secondary control (SC) of standalone AC microgrid systems, adaptive parametric estimation features inherent in Model ...

In this paper, an improved voltage control strategy for microgrids (MG) is proposed, using an artificial neural network (ANN)-based adaptive proportional-integral (PI) controller combined...

Abstract: In this brief, a novel online near-optimal control scheme is investigated for the voltage tracking control problem of direct current (DC) microgrids under the dynamic self-triggered (DST) mechanism. ...

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