Title: DC Microgrid Collaborative Control
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This paper proposes a distributed cooperative control scheme for multiple energy storage unit (ESU) in DC microgrids to achieve the control objectives of SoC balancing, power sharing, and ...

A novel enhanced distributed coordinated control framework, based on adaptive event-triggered mechanisms, is developed for the efficient management of multiple hybrid energy storage ...

In this paper, a distributed cooperative control method is proposed for a DC microgrid cluster with multiple voltage levels connected by a multi-port interconnected converter.

In this paper, based on a Matlab/Simulink environment, a microgrid system based on an AC-DC hybrid bus is built. The simulation results verify the effectiveness of the proposed microgrid...

In the islanded DC Microgrid (MG) with the significant presence of renewable energy sources (RES), the integration of energy storage units (ESU) becomes crucial in mitigating the stochastic and ...

The simulation model of DC microgrid clusters with three sub-microgrids is built in PLECS to verify the proposed control method. The sub-microgrids are connected with each other by a TAB converter.

As part of future work, we aim to extend the proposed prescribed-time control framework to coordinated control in DC microgrid clusters and hybrid AC/DC microgrid systems, where ...

Therefore, in this paper, a resilient cooperative control method is proposed for DC microgrid cluster systems, that is able to achieve both the voltage regulation and power sharing in ...

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