Privacy protection in microgrids

This article investigates the distributed privacy-preserving resilient secondary control problem for hybrid ac/dc MGs under hybrid false data injection (FDI) and denial-of-service (DoS) ...

The dual objectives of privacy protection and optimization scheduling are of paramount importance in economic dispatch for smart microgrids. This study presents.

To address this, this paper proposes a regional-privacy-preserving operation method for NMGs that collaboratively learns differentiated policy (DP) of each microgrid (MG) at the edge by ...

Unfortunately, fine-grained monitoring of energy production and consumption makes it possible to infer sensitive information about confidential aspects of people"s private life. In this paper, ...

ributed control framework for DC microgrid (MG), enhancing resilience against exponentially unbounded false data injection (E. -FDI) attacks. Our framework features a consensu. -based secondary control ...

To avoid potential privacy threats and associated cyber-security issues in microgrids, this letter presents a distributed active power sharing and frequency regulation method with preserved...

Therefore, it is imperative to develop an energy management strategy for park microgrids with shared energy storage under privacy protection.

Research indicates a growing public awareness of data privacy concerns related to smart energy systems, but a significant gap remains in understanding the specific risks and ...

This paper proposes an event-triggered privacy-preserving algorithm to protect privacy and save the communication resources for the distributed energy management in microgrids.

To further safeguard sensitive operational data, a privacy-preserving mechanism is incorporated into the control design, ensuring that critical information remains secure even under adversarial conditions.

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