



Design of Microgrid Intelligent Group Control System

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Our study, focusing on rule-based control, deep learning, and hybrid intelligent control systems, contributes to the existing literature by comprehensively analysing their effectiveness in ...

To maximize energy source utilization and overall system performance, various control strategies are implemented, including demand response, energy storage management, data management, and ...

This paper provides an overview of the recent advances in intelligent control techniques applied in MG, including neural networks, model predictive control, game theory, deep reinforcement learning, and ...

This white paper focuses on tools that support design, planning and operation of microgrids (or aggregations of microgrids) for multiple needs and stakeholders (e.g., utilities, developers, ...

Abstract -- This paper presents the system integration and hierarchical control implementation in an inverter-based microgrid research laboratory (MGRL) in Aalborg University, Denmark. MGRL aims to ...

Abstract--This paper describes the authors' experience in designing, installing, and testing microgrid control systems.

This book offers a wide-ranging overview of advancements, techniques, and challenges related to the design, control, and operation of microgrids and their ...

It builds on experience and lessons from the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) in supporting numerous DoD projects, including the ...

This paper proposes a design of robust intelligent control for stabilization of grid-connected microgrid (MG) system, consisting of photovoltaic (PV), wind power (WP), and fuel cell (FC).



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