

The state of the art on microgrid operation typically considers a flat and static partition of the power system into microgrids that are coordinated via either centralized or distributed control ...

**ABSTRACT** The concept of microgrids (MGs) as compact power systems, incorporating distributed energy resources, generating units, storage systems, and loads, is widely acknowledged ...

Microgrids (MGs) provide a promising solution by enabling localized control over energy generation, storage, and distribution. This paper presents a novel reinforcement learning (RL)-based ...

This book provides a comprehensive overview of the latest developments in the control, operation, and protection of microgrids, and is a valuable resource for researchers and engineers working in control ...

DC microgrid planning, operation, and control challenges and opportunities are discussed. Different planning, control, and operation methods are well documented with their advantages and ...

In addition to comparing various MG optimization problem formulations and solution approaches using multiple optimization algorithms, this paper reviews various optimization ...

The global transition to sustainable energy demands efficient integration of renewable resources and resilient operation of microgrids (MGs). This study aims to develop a cost-effective and ...

This special issue focuses on the advancement of the field of microgrids, specifically in the areas of planning, operation, and control, to enhance their efficiency and reliability.

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, ...

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