

Multi-agent systems have emerged as a promising approach to realize and optimize energy management in microgrids. In this study, agent and multi-agent system structures used in microgrids ...

This study provides an overview of the agent concept and multi-agent systems, as well as reviews of recent research studies on multi-agent systems" application in microgrid control systems.

The paper presents a new multi-layered framework for smart energy management in microgrids by bringing together advanced forecasting, decentralized decision-making, evolutionary ...

At the multi-agent level, we identified and created the corresponding types of agents for each component of the microgrid. Each bus of the system is managed by a net agent and connected to other nets ...

In this paper, the implementation of a MultiAgent System (MAS) for the control of a set of small power producing units, which could be part of a MicroGrid, are presented. The use of MAS technology in ...

The survey explores how researchers have utilized agent-based tools and methods to solve the main problems of Smartgrids. The survey also discusses the challenges in the ...

Microgrid systems are built to integrate a generation mix of solar and wind renewable energy resources that are generally intermittent in nature. This paper presents a novel decentralized multi-agent ...

This paper focuses on a brief review of current MAS technology utilized in MG control. The future focuses of this technology is also predicted. The rest contents of this paper are organized as follows. ...

This article presents an efficient and easily implementable real-time energy management and control system based on multi-agent systems for hybrid Low-Voltage Micro-Grids (LVMGs) using ...

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