

# Fuzzy control of hybrid energy storage system



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### Control Algorithms of Hybrid Energy Storage System Based on Fuzzy ...

This paper presents methods of controlling a hybrid energy storage system (HESS) operating in a microgrid with renewable energy sources and uncontrollable loads.

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### An energy management scheme for hybrid energy system using Fuzzy ...

This research underscores the potential of intelligent control strategies in advancing the efficiency, flexibility, and reliability of modern hybrid energy management systems.

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### A state-space fuzzy control model to enhance the lifespan of hybrid

This study presents a hybrid energy storage system (HESS) and energy management strategy (EMS) based on the designed state-space fuzzy control (SSFC) technique that uses a ...

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### Coordinated fuzzy control of hybrid energy storage systems for ...

To overcome this, we propose a novel fuzzy control-based strategy for hybrid energy storage systems (HESS) that combines flywheel and lithium battery technologies to assist in ...

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### Fuzzy logic-based voltage regulation of hybrid energy storage system ...

In the recent era, hybrid electric vehicle (HEV) is becoming popular due to their attractive features of energy saving and less air pollution. This paper aimed at designing a hybrid electric ...

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### Fuzzy Rule Control-based Energy Management Strategy for ...

To improve the energy control effect of electric vehicles, this paper investigates the energy management strategy (EMS) of the hybrid energy storage system (HESS) composed of lithium batteries and ...

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### CEEMD-Fuzzy Control Energy Management of Hybrid Energy ...

Abstract: To improve the performance of the energy storage system of electric



vehicles, a complete ensemble empirical mode decomposition-fuzzy logic control energy management strategy is ...

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### **Cognitive fuzzy logic-integrated energy management for self ...**

An Integrated Energy Management System (EMS) was proposed employing fuzzy logic as a solution to manage the energy needs of loads in this work.



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### **A Coordinated Neuro-Fuzzy Control System for Hybrid Energy Storage**

To address this issue, this paper proposes a coordinated control strategy based on neuro-fuzzy networks, applied to a hybrid energy storage system (HESS) composed of batteries and ...

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### **Adaptive Neuro-Fuzzy Energy Management of Grid-Connected PV Systems**

The paper presents an Adaptive Neuro-Fuzzy Inference System (ANFIS) - smart energy management scheme for a grid-

connected hybrid power conversion  
system integrating photovoltaic ...

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