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This article introduces an innovative framework for solar energy optimization. This approach delves into the multifaceted layers and components of neural networks (NNs), ...

This paper first analyzes the workflow of HVAC systems and the causes of energy consumption, followed by combing and summarizing the existing research on energy-saving technologies for ...

In accordance with the climate conditions in northwest China, a set of intelligent control system for diversified environment of solar greenhouse was designed. The system divides the annual ...

<p>Intelligent greenhouse can promote development of modern agriculture, realize high quality and high yield of crops, and bring great economic benefits. According to climate conditions in ...

The proper design and operation of industrial robots and automation systems represent a great opportunity for reducing energy consumption in the industry, for example, by ...

Our study aims to conduct a thorough investigation into the effectiveness of artificial intelligence-based maximum power point tracking control techniques in light of the ...

This paper explores the transformative role of artificial intelligence (AI) in enhancing the efficiency and functionality of renewable energy systems, focusing on solar and ...

Abstract The implementation of renewable energy brings numerous advantages including reduction of power transmission cost and minimization of the global warming ...

The accepted papers cover the energy-saving technologies related to the improvement of building envelops,

mechanical systems, occupants" behavior, renewable ...

The article examines the impact of artificial intelligence (AI) on optimizing solar energy storage systems, highlighting its role in enhancing efficiency, predictive maintenance, ...

Discover how high-performance panels, energy storage, and advanced monitoring can improve solar system efficiency & boost long-term savings.

To this challenge, the application of Artificial Intelligence (AI) and advanced optimization techniques have been used as powerful tools for increasing the level of real time ...

The advancement of solar energy systems requires intelligent, scalable solutions that adapt to dynamic environmental conditions. This research proposes a novel AI-enhanced ...

The literature review examines the evolution of solar PV systems, the role of AI in renewable energy optimization, and the comparative analysis of various AI-based optimization ...

The data analysis results show that the intelligent energy-saving management system of industrial buildings based on artificial intelligence constructed in this paper has good ...

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Driven by growing environmental concerns, such as global warming and the depletion of fossil fuels, the renewable energy industry, particularly solar energy, has risen to ...

Enhanced control strategy and energy management for a photovoltaic system with hybrid energy storage based on self-adaptive bonobo optimization

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