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# Sucre Solar Energy Intelligent Control System

The proposed system integrates smart solar panels with real-time monitoring and adaptive tracking mechanisms to maximize energy output. A dual-axis solar tracking system ...

Renewable energy systems, such as photovoltaic (PV) systems, have become increasingly significant in response to the pressing concerns of climate change and the ...

The ongoing evolution of these systems paves the way for ecological consciousness and energy independence. As the global demand for renewable energy surges, investing in intelligent control solar solutions ...

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This paper provides a comprehensive survey of Artificial Intelligence of Things (AIoT) applications in solar energy, illustrating how IoT technologies enable real-time ...

Discover how machine learning is reshaping solar forecasting, uncover the potential of autonomous systems in energy storage, and explore the role of AI in crafting smarter, more sustainable cities. From predictive ...

This integrated approach, combining simulations and hardware implementation, provides a robust framework for developing smart energy management systems, contributing ...

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