

Title: Automated wind power generation system design

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This work aims to develop a simple, robust and dynamic AGC system for a real power system model, which incorporates the capacities of wind power and electric vehicle along with a ...

This study designed and implemented an intelligent wind-powered water pumping and electricity generation system based on a microcontroller. The system utilizes optimized ...

This study introduces the design, modeling, and control mechanisms of a self-sufficient wind energy conversion system (WECS) that utilizes a Permanent magnet ...

Our exploration covers the aerodynamics of traction kites, the mechanics of power generation, and the pivotal role of AI in system control and optimization.

Next-generation wind turbine control systems are evolving with intelligent automation, predictive monitoring, and grid-aware design ...

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In this paper, the proposed WTPGS system is designed in MATLAB/Simulink software where a hybrid controller (ANFIS-PI) is implemented in the machine-side converter ...

Our exploration covers the aerodynamics of traction kites, the mechanics of power generation, and the pivotal role of AI in system ...

Through the analysis of its mathematical model and curve, it understands the basic steps of its work and how to realize the process of automatic wind catching. Through the arrangement of ...

In order to ensure the expected system performance and more effectively utilize the limited network communication resources under DoS attacks, a novel dynamic multi-event ...

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The trouble of global energy shortage is becoming increasingly severe, and environmental factors are becoming increasingly necessary for social development.

In this literature, a new automated control strategy has been developed to manage the power supply from the wind power generation system to the load.

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