

Abstract: Solar water heater intelligent control system is made up of four modules which are data acquisition module, single-chip control module, the implementation and regulation module and ...

A Solar-PV inverter is made to operate as a PV-STATCOM to stabilize the different modes of a Turbogenerator-based power system. An intelligent MPPT control of the ...

It is essentially an intelligent control system that monitors and manages the performance of batteries in various applications, including solar power systems. Think of the BMS as the brain ...

It is proposed to use a neural network to track the maximum power point for more efficient charge control. The neural network drives controllers that control the process and provide an effective ...

The paper considers an intelligent automated solar tracking control system designed to increase the efficiency of solar energy production. The proposed method of detecting cloudiness allows ...

This paper presents the design and implementation of Artificial Neural Networks (ANN) that control a hybrid wind-solar system based on Field Programmable Gate Arrays. the ...

A set of sensors connected via a ZigBee network and a web-based management system to control the street lights was used . The intensity of light via LDR and ...

According to Engin and Engin, there are three algorithms used in the sun tracking system: a hybrid method of closed-loop control and open-loop control, closed-loop ...

This study presents a novel approach for integrating solar PV systems with high input performance through adaptive neuro-fuzzy inference systems (ANFIS). A fuzzy neural ...

Intelligent solar chasing streetlight systems use microcontroller control and precise tracking algorithms to automatically adjust the orientation of solar panels, maximizing ...

Clodesun provided the solar lighting intelligent control system for this project, realizing the remote intelligent management of solar street lights. The project uses high luminous efficiency LED chips, which greatly reduce the ...

The solar tracking system has both single-axis and dual-axis types: ... Artificial intelligent control of a solar tracking system. J Appl Sci Res 8(8):3971-3984. Google Scholar ...

Solar Intelligent Control System

This paper examines how to use IoT, a solar photovoltaic system being monitored, and shows the proposed monitoring system is a potentially viable option for smart remote and in-person ...

Features like accurate water level detection, Better Closed loop control, Effective timer control, Remote control for timing and feasibility of mode changing are introduced into the old Energy ...

One such development is solar tracking, which can be achieved through single axis or dual axis models. The simulation proposes using model predictive control (MPC) ...

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