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Patent Search

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Abstract:

The goal of this invention is to reduce the amount of power used on the streets and to do away with labor. This involves using certain sensors, LDRs, and microcontroller to regulate a circuit of street lights both during the day and at night. Worldwide, there is an increase in traffic jams and delays in transit due to urban necessities. The key in automobile systems for controlling traffic lights is the traffic signal. In order to increase car and pedestrian safety, a traffic signal is essential. Emergency vehicles, such as cars, fire engines, and ambulances, are required to promptly transport people who have been involved in accidents to hospitals. They can be delayed for rescue effort for traffic lights. In this study, we describe how traffic signal lights will recognize emergency vehicles and how to control traffic flow. Conserving Energy improving the automated street lights system with solar panels and simulating traffic management for emergency vehicles, all of which contribute to the concept's potential to save lives. The purpose is to produce a "IoT based Automatic Smart Street Lightning System" that runs at night on solar energy. In addition to powering the street lights, the system assists in the direction in which a pedestrian is moving and provides light along his route until it approaches the next street light. It is possible to implement an RFID-based traffic system, particularly in response to the approach of an emergency vehicle, and systematically assist pedestrians in remote rural areas experiencing severe power outages by integrating all of the street lights with a smart streetlight system.

Complete Specification

Description:Field of Invention

[0001] This invention is related with the Conserving Energy improving the automated street lights system with solar panels and simulating traffic management for emergency vehicles. Several designs are incorporated to showcase the working model of the proposed system as it applies to intellectual property, trademarks, designs, and copyrights.

Background

[0002] The goal of this invention is to reduce manpower and regulate street power use. This involves using certain sensors, LDRs, and microcontrollers to regulate circuit of street lights both during the day and at night. Worldwide, there is an increase in traffic jams and delays in transit due to urban necessities. The key component in automobile systems for controlling traffic lights is the traffic signal. Traffic signals are essential for enhancing pedestrian and vehicle safety.

[0003] Emergency vehicles, such as police cars, fire engines, and ambulances, are required to promptly transport people who have been involved in accidents to hospitals. They can be delayed for rescue efforts because of traffic lights. In this article, we describe how traffic signal lights will recognize emergency vehicles, control traffic light, and give emergency vehicles a clear path.

[0004] Conserving Energy improving the automated street lights system with solar panels and simulating traffic management for emergency vehicles, all of which contribute to the concept's potential to save lives.

[0005] Expert System: Findler and Stapp (1992) described an expert system-based traffic light controller. An expert system decides what to do next by referring to the collection of rules. Such an activity in traffic light control has the potential to alter some control parameters, necessitating the design of an entirely new system.

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