

## **SURVEILLANCE SYSTEM WITH LIGHT SENSOR**

### **ABSTRACT**

Surveillance system is commonly established by using CCTV to collect image and video information in real time in distance. However, CCTV is high cost solution and hard to construct environments to every district, so we present low-cost solution with light sensor.

Recently in, light strength in the city can contribute to reduce crime. In darkness, improved lighting deters potential offenders by increasing the risk that they will be seen or recognized when committing crimes. In case of daylight, better lighting leads to a greater willingness to intervene in crime and to report it. This survey supports an idea that bright place is more secure than dark place. With this insight, we developed a novel surveillance method which installs light sensor to each destination and then report light luminance to passengers or government officers.

As a passenger, they can avoid insecure district or way and, as officers, they can plan to install new street-lights in the insecure locations to improve security. We designed our model and tested under simple environments, but this can be applied or extended to real world applications without difficulties.

## **EXISTING METHOD**

Traditional surveillance system is enabled by closed-circuit television (CCTV) monitoring each district in real time. However, this approach should install expensive CCTV to every destination and collected images or videos should go through complex post-processing to get useful and meaningful information. Furthermore nowadays CCTV violates people's private life, which is crucial problem in modern society.

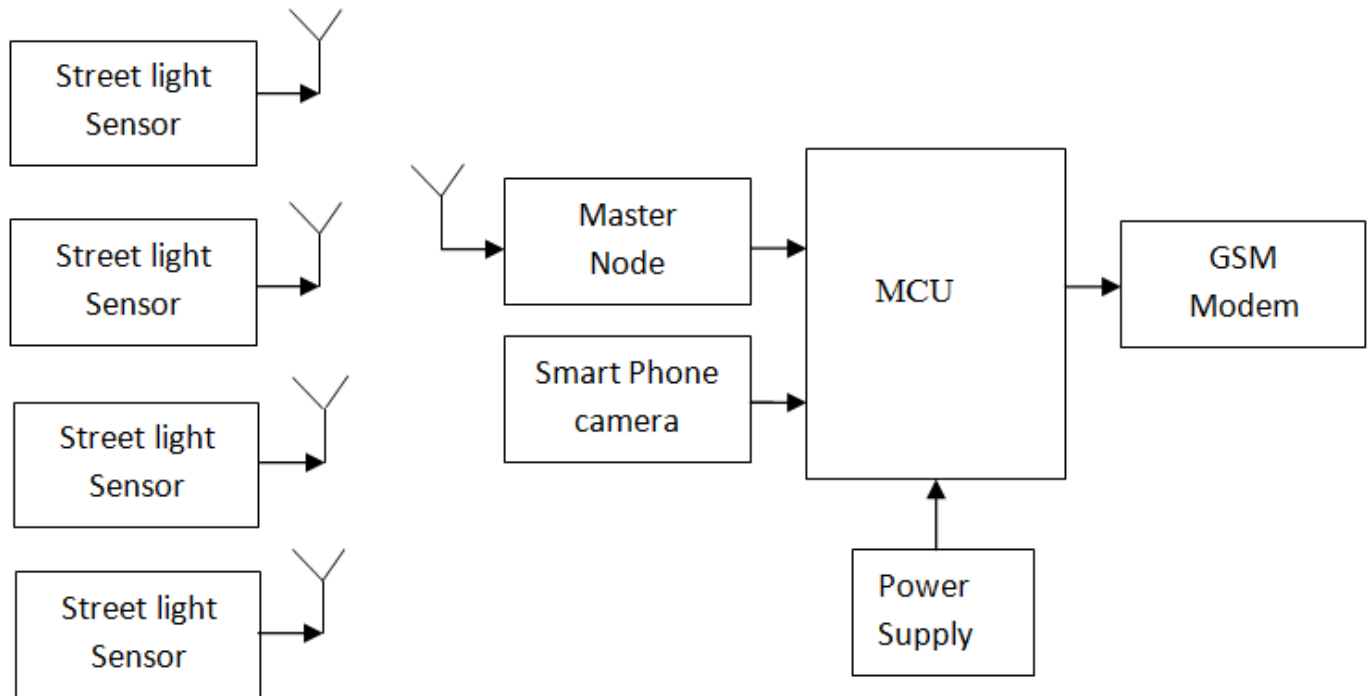
## **PROPOSED METHOD**

This system is secure and robust street, more simple and cheap approaches could be favorable.

## **ADVANTAGES**

- Low cost
- The evaluation shows that our approach is unprecedented ultra light-weight approach and cost effective method to improve security in our society.

## BLOCK DIAGRAM



## HARDWARE REQUIREMENTS

- Smart Phone
- Micro Controller
- Power Supply
- GSM Modem

## SOFTWARE REQUIREMENTS

- MCU COMPLIERS
- PROTEUS SOFTWARE



MICROCONTROLLER may ATMEGA,8051,PIC OR Arduino

