



International Journal on Recent Researches In Science, Engineering & Technology

(Division of Information Technology)

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy. It is an absolutely free (No processing charges, No publishing charges etc) Journal Indexed in JIR, DIIF and SJIF.

Research Paper

Available online at: www.jrrset.com

Chief Editor : Dr. M.Narayana Rao, Ph.D., Rtd. Professor, NIT, Trichy.

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 3, Issue 4,
April 2015.

JIR IF : 2.54

DIIF IF : 1.46

SJIF IF : 1.329

Automatic Room Light Luminance Controller Using Wireless Sensor Network

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Abstract: Saving energy has become one of the most important issues these days. The most waste of energy is caused by the inefficient use of the customer electronics. Particularly, a light accounts for a great part of the total energy consumption. The proposed system utilizes multi sensors and wireless communication technology in order to control an LED light according to user's state and surroundings. The proposed LED lighting can adjust the brightness of LED's glowing to enhance the energy. For this, we used two sensors namely PIR and LDR. Once the intensity of the room is low, the output from the LDR sensor is fed to the microcontroller. The brightness of LED is adjusted accordingly. If the room is dark and if there is presence of human beings, the output from the PIR and LDR is fed to microcontroller. Due to this, LED will glow. We designed and implemented the proposed system and measured the power consumption to verify the performance.