



## International Journal on Recent Researches In Science, Engineering & Technology

A Journal Established in early 2000 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 charge No publishing charge etc) Journal Indexed in DIIF and SJIF.

**Research Paper**

Available online at: [www.jrrset.com](http://www.jrrset.com)

Chief Editor : 1. Dr. M.Narayana Rao, Rtd. Professor, NIT, Trichy.  
(Engg.&Technology division)

2. Dr. N.Sandyanani, Ph.D., Professor,  
Chennai based Engg.College, (Science division)

ISSN (Print) : 2347-6729  
ISSN (Online) : 2348-3105

**Volume 1, Issue 12,  
Dec. 2013**

**DIIF IF :1.46  
SJIF IF: 1.329**

---

### Advanced Door Level Security System

**S. Selva priya**

Abstract : Literature reported techniques to improve security systems available in current market. This paper claims to produce a prototype camera and global system for mobile communication (GSM) interfacing system for security surveillance. This system uses sensor, namely passive infrared receiver (PIR).The PIR function is to detect changes in temperature of human in infrared radiation. This project presents a technique for human Face Recognition is based on PCA algorithm (i.e., eigen face method). In this paper the microcontroller used is PIC 16, where it sends data to the computer to activate the camera when the microcontroller receives signals from PIR. MAX232 is used as an interface circuit connecting the microcontroller to the computer. To develop software for the control circuits, software METLAB is used because the software supports microcontroller PIC 16. Once the camera is achieved, it will capture images of intruder and it will be saved and sernd to the mobile phone, through commands the alarm and door lock gun will be activated. For the transmission of picture (MMS), the software used is MATLAB because yhey support the process of sending picture from computer to phone via GSM modem.