ABSTRACT

In this modern competitive market, institutions are facing major security issues consequently, get rid of this problem they need more specially trained personals it is cost high and the level of security is doubtable. A more reliable security system should need to overcome this problem therefore we used especially designed system that are based on human identification. Face recognition is a popular area in research under computer science and one of the most application of understanding and image analysis.

Face recognition system is used in such areas like passport authentication, surveillance, criminal screening, immigration or customs. The aim of this report is to develop a real time application for security lock near to vault or server room in industry using face recognition system. Due to fast response and less sensitive to noise and interference principle Component Analysis (PCA) is selected and for detection purpose adaboost algorithm is selected. Arduino based camera is selected to capture images and Bluetooth module is selected to transfer image to control panel. An alarm goes off if the user is not recognizing.