



SMART HOME SECURITY ENVIRONMENT SYSTEM ENVIRONMENT WITH HUMAN FACE RECOGNITION BY USING REMOTE TECHNOLOGY

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Abstract: Smart home security system has become indispensable in daily life. Remote monitoring technologies are to be used since the invention of smart home security control system. In this paper, we described home environmental issues to authenticate people by the verification of wireless control system. We proposed verification techniques for the identification of visitors' faces, alert messages of home environment situations. System control issues can be authorized the system through user mobiles by receiving the commands with authentication. The complete system is controlled by using Raspberry Pi and testing the home environment. This new system can be implemented in the home environment to do authentication process. Normally Face recognition algorithms and wireless interfaces are used to identify the visitors and provide an email notification and/or an alert message about the current home environment through network facilities with the help of home owner's mobile phones. This system is more useful for more applications which are not having a physical presence at any time.

Keywords: Face detection, Raspberry pi, E-mail, Security.

1. INTRODUCTION:

Now a days, Internet of Things (IoT) is an emerging area in an IT field. It is a network connection with physical objects which are accessible through the internet facilities. Yet things assign an IP address and collect the data transfer through network without human beings of participation. It provides different ways to increase efficiency and improving safety and it security [1]. Data analytics, security issues have improved the performance to achieve the best results. An efficient embedded door access control management techniques are used in face recognition process. It plays a crucial role in the security application. In those days implementation of security system was implemented in homes and workplaces [2]. Doors are open/close with the cards, security keys. It has the following advantages.

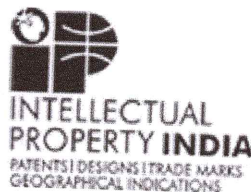
- Small surveillance capacity.
- Low efficiency in evaluating time.
- Human error in high security system.

Recent days, security gains are real high power of everything in the universe. In this paper, the authors have been focused for producing the comprehensive study, which is related to the many door locks and gate security systems that are mainly implemented [3]. Customer can access the system by utilizing mobile phones [10]. Previously some of the authors are focused on security issues. Krishna Reddy et al have focused on security issues in a cloud environment. [16]. Titupathy Reddy et al gives data sharing process by using secret keys. [17]. Swapna et al described the website security threats [18]. Ravindra Nath et al have been focused on different security issues for data in cloud environment [19, 20, 21]. Jabbertal [22] provide a health care management system of government. Lakshmi Praneetha et al [23] demonstrate the automated leaf disease detection in corn species through image analysis. Mishra et al [24] gives performance analysis on architecture issues. Nagendrama [25] provides the Performance evaluation of wide area network issues. The major contribution of the paper is to provide the guidance to the users for improving door security of personal locations by using face detection and verification [1]. This system can be used to develop



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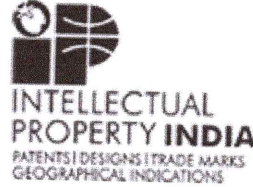
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