

Face Recognition by Smart Surveillance and Tracking System

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Abstract: *A smart home security control system has become very important in everyday life. Design and development of a home security system, based on human face recognition and remote monitoring technologies, verification of guest ownership and control of departmental access are reported in this paper. This paper describes the use and distribution of a wireless control system and home access only to authorized people. Automatic face recognition handles security issues with flexibility in case of anonymity or a stranger, real-time video streaming is processed, motion detection, and dual-axis pan-tilt servos track that person with a camera. In addition, such bizarre activity is recorded on video in sync from cloud storage, and mobile alerts are generated. When the Internet is not available, a website file is upgraded with an audio notification being sent to the security room if an anonymous face is not present on the website. Speech recognition and voice transmission are also added to transmit voice and activate the surrounding lights. This project aims to replace expensive security systems using Raspberry pi 3B + as a laptop.*

Keywords: Face recognition

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