Abstract

This paper deals with the idea of secure locking automation utilizing IOT for door unlocking system to provide essential security to our homes, bank lockers and related control operations and security caution through the GSM module. It uses an image capturing technique in an embedded system based on raspberry pi server system. RPi (Raspberry pi) controls the video camera for catching it for turning on a relay for door unlocking. The module contains a secured face recognizer for automatic door unlocking. The camera catches the facial picture and compares it with the image which is stored in the database. If the picture is found in the database then the door lock opens otherwise it will produce a SMS that an unknown person is trying to gain access.

References

5. Çarıkçı, M., Özen, F. 2012 A Face Recognition System Based on Eigen faces Method.

**Index Terms**

Computer Science | Automated Systems

**Keywords**

Facial Recognition; Internet of Things(IOT); Image matching; Sensor System; Digital camera; Raspberry Pi 3; Person Identification