

Facial and Voice Recognition Based Security and Safety System in Car

In the modern age there is rapid increase in number of vehicles and so in the number of car theft .So the main purpose of the project is to enhance the vehicle security and safety system using biometric system specifically facial and voice recognition.

EXISTING SYSTEM

Since it is an Existing system it has lack of security feature which vulnerable to theft. Even though it has GPS to track location we cannot identify the theft since there is no biometric system like facial and voice recognition.

PROPOSED SYSTEM

Inorder to overcome these we have proposed over system.

- In the proposed system a small webcam will be hidden in the steering and when a person sit in the driver seat the webcam take the picture of face of person.
- Then it compare the face with previously saved face if it matched then the person can access the steering wheel of car
- If the face pf the person doesn't match with the previously saved images then the steering wheel of the car will be locked automatically.
- Then the face of unauthenticated person will be captured by webcam and message with image and car position will be sent to the owner mobile and if it is confirmed that the person is unauthorised then it will be send to nearest police station.
- And also additionally we can also use speech recognition for the safety purpose of car which also help to unlock the car.

Technology Used

HaarCaascadeClassifier,SmallerResnet,Opencv,Geolocation
API,Speech Recognition