Smart Automotive Security Control with Accident Alert System

Manjunath S[1], Dileep Kumar G[2], Chandan Gowda A H[3], Chetan M[4], Hemanth R S[5]

Project Guide, Department of Computer Science and Engineering[1],
Projecties, Department of Computer Science and Engineering[2,3,4,5]
Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology, Chikkaballapura, Karnataka, India

Abstract: *Vehicles are becoming advanced by combining the greater power to achieve connectivity solutions and the advancement in software visions. In modern vehicles automotive designs are interfaced with these features. The system includes keyless entry system and immobilizer system as the main weapons to prevent the vehicle theft. But these type of systems provide or detect the unauthorized access of vehicles to a measurable limit only. These security systems have straightforward. So car burglary has been a persevering issue far and wide and a greater test from the proficient criminals. This project proposes an aim to design efficient security control for auto theft prevention system by adding notable enhancement features such as a fingerprint system, password. It is also included with some rationalizing security features like GPS fencing and conveying location of vehicle as a message using GSM module. It deals with accident detection system when the accident occurs it uses Tilt, Smoke Sensor and Buzzer and alerts the Emergency team for help by reading the exact latitude and longitude of the vehicle involved in the accident.*

Keywords: Automotive Security Control.

BIBLIOGRAPHY

[1]. Mrinmoy Dey, Md. Akteruzzaman Arif and Md. Asif Mahmud," Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification", International (ECCE), February 16-18, 2017.

[2]. Champa Bhagavathi.R ,"Vehicle Theft Detection and Prevention Using GSM and GPS ", International Journal of Innovative Research in Computer and Communication Engineering , ISSN : 2320-9798 Vol. 4.

[3]. C.Prabha , R.Sunitha, R.Anitha "Automatic Vehicle Accident Detection and Messaging System Using GSM and GPS Modem", International Journal of Advanced Research in Electrical,Electronics and Instrumentation Engineering(An ISO 3297: 2007 Certified Organization)Vol. 3, Issue 7, July 2014.

[4]. Yellamma Pachipala1, Tumma srinivas Rao2,G Siva Nageswara Rao3,DBaburao4,"An IoT Based Automatic Accident Detection and Tracking System for Emergency Services", Jour of Adv Research in Dynamical & Control Systems.

[5]. Kalyani, T., et. al. (2019). Accident Detection and Alert System. International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue4S2.pp. 227-229 [

[6]. Bergonda, S., et. al. (2017, April). "IoT Based Vehicle Accident Detection and Tracking System Using GPS Modem", International Journal of Innovative Science and Researh.

[7]. Nirav Thakor. Automatic vehicle accident detection system based on arm gps. International Journal for Research in Technological Studies, 2013.

[8]. M.S. Joshi. Arm 7 based theft control,accident detection and vehicle positioning system. International Journal of Innovative Technology and Exploring Engineering, 2014.