

Vehicle to Vehicle Communication for Accident Avoidance System using GPS Tracking

Mr. Rathod G.G.¹, Mr. Balram Tandle², Mr. Rohit Karale³, Mr. Tushar Varpe⁴

Professor, Department of Electronics & Telecommunication Engg.¹

Students, Department of Electronics & Telecommunication Engg.^{2,3,4}

Amrutvahini Polytechnic, Sangamner, India

Abstract: *V2V collisions are one of the most destructive events. Although there are many other causes of V2V accidents, driver neglects and excessive speed are the main culprits. Additionally, it appears that a lack of awareness makes it difficult to arrive at the scene of the collision in time. By reducing the frequency of accidents, the development of Internet of Things(IoT) technology can aid in the solution of this issue. In this study, a smart system that warns users, control vehicle speed, and properly warns people in the event of accidents. This device continuously monitors the distance between oncoming cars and any obstruction by using distance sensor. It will alert the driver to restrict speed and will automatically slow down the when crucial distance is approaching. It is a system that can send a warning to the police stations and be capable of identifying accidents. IOT-based vehicle safety Alert and Tracking System Research and Implementation When an accident occurs under unclear conditions, a notice alert with V2V information is delivered to the person responsible*

Keywords: Collision Avoidance, GPS Tracking, Speed Control, Vehicle to Vehicle communication