|  |  |  |  |
| --- | --- | --- | --- |
| Title | Vehicle Collision Detection & Prevention Using VANET Based IoT With V2V | | |
| Author(s) Name | Shafin Talukder, SK. Tasnim Bari Ira, Aseya Khanom, Prantika Biswas Sneha and Wardah Saleh | | |
| Contact Email(s) | wardah@aiub.edu | | |
| Published Journal Name | International Journal of Wireless & Mobile Networks (IJWMN) | | |
| Type of Publication | Journal | | |
| Volume | 14 | Issue | 2 |
| Publisher | American International University-Bangladesh (AIUB) | | |
| Publication Date | Apr 22, 2022 | | |
| ISSN | 0975-3834 | | |
| DOI | DOI:10.5121/ijwmn.2022.14203 | | |
| URL | [Vehicle Collision Detection & Prevention using VANET Based IoT With V2V (aircconline.com)](https://aircconline.com/abstract/ijwmn/v14n2/14222ijwmn03.html) | | |
| Other Related Info. | Page 1 - 10 | | |
|  | | | |

|  |  |
| --- | --- |
| Abstract |  |
| EMERGENCY alert in case of any accident is vitally necessitated to rescue the victims. And so, this paper is made to present the results of a major analysis relating to emergency alert conditions at the time of collision (automobile). In this study, the authors have investigated modern Internet of Things (IoT) and VANET (Vehicular Ad hoc Networks) technologies and developed a collection of modern and specialized techniques as well as their characteristics. It has sensors that detect unbalanced circumstances and provide with a warning to the microcontroller if a collision occurs. Additionally, the technique can be implemented in such a way that vehicles are alerted of possible closing barriers. Vehicle-to-Vehicle communication (V2V) has a huge impact since it allows vehicles to communicate with each other while in proximity and the buzzer together with the LEDs serves as a safety feature. The primary goal of the system is to carry out the microcontroller functions in every environment and moreover, the concept refers to detect and prevent the collision specially in a foggy weather as well as at night and in other odd circumstances. The Internet of Things (IoT) and the Vehicular Ad-Hoc Network (VANET) have now been merged as the fundamental and central components of Intelligent Transportation System (ITS). Furthermore, while the procedure of obtaining the insurance may be longer for certain people. On the other hand, others may avoid the law after being involved in severe collisions which makes it difficult for the authorities to discriminate between criminal and non-criminal evidence. | |