

## Signs with Smart Connectivity for Better Road Safety

### LITERATURE SURVEY :

#### INTRODUCTION :

With the growing number of individuals and vehicles within the populated area, traffic jam has become a serious problem and a challenge in big cities. Slow cars not only drive trips, but even have an impression on the environment by polluting the air, the economy by wasting working hours and fuel, and private health by increasing the extent of stress. It also can be life-threatening when emergency vehicles attempt to undergo traffic jams. In addition to the economic impact, traffic jams can severely disrupt services provided by ambulances, firefighters, and emergency services, hampering their efforts to satisfy target reaction time and maintain quality of service. Table 1 shows that emergency services like the Metropolitan Fire and Emergency Services Board (MEFSB), Country Fire Authority (CFA), State Emergency Service (SES), and Ambulance Victoria (AV) have a way shorter time interval than their corresponding reaction time (travel time). There are many ITS recommendations within the literature, most notably Green Wave, ITS Integration model, application-based model, Smart traffic signal system (STLC), and Smart Congestion avoidance (SCA).

S.NO	Author	Domain	Dataset	Algorithm & Tool	Accuracy
1.	G. Liang et al	Accident Detection Based on the IOT and support Vector Machine.	Real-world traffic data as should signal & magnetic field signal.	AntColony Algorithm applied on support vector Machine.	It varies from 89% to 99.15% according to accident type.
2.	V.Ravindran	A novel approach to Automatic Road-Accident Detection Using Machine Vision Techniques.	Image Captured within 2 meters & 20 meters.	Support Vector Machine trained with histogram of gradient & gray level co-occurrence Matrix	81.83% for an image captured within 2m & 6437% within 20m.
3.	N.Kinner et al	An IOT Based Vehicle Accident Detection and classification System Using Sensor Fusion.	1167 observation in changes of speed by conducting the rollover experiment.	Naïve Bayer(NB) Gaussian Mixture Model (GMM) and Decision Tree (DT) techniques.	NB - 97% GMM - 92% DT - 86%

4.	F.Bhatti et al	Novel Internet of Things-Enabled Accident Detection and Reporting System Smart City Environment.	Custom Dataset took from field open data repository.	SmartPhones with sensors, Information and Communication Technology.	90% detected.
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ITS is one among the foremost important Internet of Things (IoT) applications powered by Smart Cities. The green wave-based ITS system has been introduced, which makes the road signal system green to green when an emergency vehicle approaches a road signal. As a results of turning the signal to green, the emergency vehicle detects all the green signals on its way. during this project, the road signal system can detect any stolen vehicle passing through the signal. Here, figure 2 shows the processing steps of our proposed intelligent traffic signals system. The worst thing a few green wave is that, when traffic synchronization is disrupted, it can cause tons of traffic (overcrowding). to scale back the impact of noncompliance, an RFID-based traffic management system is suggested . to scale back traffic jam , we've introduced a typical traffic measurement system to watch traffic and use-based insurance (UBI), consisting of seven components loaded from a smartphone to a high-end business model. This measurement system can specify traffic details on the road and may calculate the entire traffic duration, and supply an appropriate solution. during this project, they need developed a contemporary traffic monitoring system to extend traffic flow to satisfy current and future traffic needs. The authors have proposed the gathering of road information through the mixing , integration, and maintenance of the city's smart traffic systems employing a wireless network (WSN), which provides a far better solution by reducing more traffic compared to current road signal systems. Keep your text and graphic files separate until after the text has been formatted and styled. don't use hard tabs, and limit use of hard returns to just one return at the top of a paragraph. don't add any quite pagination anywhere within the paper. don't number text heads-the template will do this for you.