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(57) Abstract :

Nowadays, there is a tremendous change with transportation facilities in metropolitan cities across India. The population, as well as the usage of the vehicles, is increasing at a higher rate which causes a lot of congestion and road accidents. In reality, road accident severity is the major concern in underdeveloped and developing countries. Road accident strictness is a major apprehension of the world, particularly in middle-income and low-income countries. Identifying the key areas where serious injuries and death crashes occurring. Provide solutions for risk reduction and prevention, that is warning road travellers about risk and speed by taking mitigating actions. The Main objective of proposal is to predict and prevent the accidents, by alert the drivers traveling in a particular route with voice based alert messages regarding speed limit exceeding, accident prone areas and traffic congestion to improve traffic efficacy and augment road safety. The RAPP device associated with vehicle mainly consist of six units namely GPS track, database of accidents and violations, Arduino nano board, GSM module, and voice message alert sensor. The model and approach are described in detail with the help of the figure. Figure 1 represents the overall structure of an intelligent transportation RAPP (Road Accident Prediction and Prevention) Device.

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