

LITERATURE SURVEY

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I.L.F.P. Oliveira, L.T. Manera, P.D.G. Luz in their paper titled "Smart Traffic Light Controller System", IEEE 2019, developed smart traffic lights capable of traffic accident detection enabling the enhancement of traffic light management systems, blocking and creating alternative routes to not only avoid the traffic jams, but also avoid new accidents.

- Shalini Kanuganti et al. Road Safety Analysis Using Multi Criteria Approach, A Case Study in India: World Conference on Transport Research- WCTR2016 Shanghai. 10-15 July 2016 In this paper a study was carried out to determine the priority of safety requirements of a certain category of rural roads, viz., Pradhan Mantri Gram Sadak Yojana (PMGSY) roads in the Jhunjhunu district of Rajasthan, India. Multi- criteria techniques were used to quantify the safety levels. Further analysis was done on the road having the worst safety features to rank various stretches. The parameters vital for safety have been selected and quantified using three multi- criteria decision making analysis tools: Simple Additive Weightage (SAW), Analytical Hierarchy Process (AHP) and Fuzzy AHP methods and results are compared. Analysis has been done in two phases. In the first phase the prioritization of roads for safety provision was carried out considering the total length of each road as an alternative and the most critical road was identified. The parameters in the road were measured and rated (on a scale of 1-5). In the second phase, the road found critical from the first phase was considered for detail analysis. The entire stretch of the road was divided into stretches of 1 km and the stretch-wise prioritization of roads for safety provision was determined. The average values per km for the*

severity score of the parameters were obtained like the first phase. The methodology suggested can be used to determine the level of contribution of parameters towards safety hazard.

- *Nikhita Reddy Gade, et.al. (2016): Today the world is connected. The number of devices that are connected are increasing day by day. Many studies show that about 50 billion devices will be connected in 2020 indicating that Internet of things has a very important role to play in the future to come paper. We need to act fast and meet these needs by developing technologies that cater to the world's problems. One such solution is the development of a smart world. The most important application of the IO are smart cities. In recent years, the concept of smart city has played an important role in both academic and industry fields, with the progress and functioning of various middleware platforms and infrastructures based on IO.*

- *Koushalya Bijjaragi, Poonam Tijare (2016): As the volume of traffic is increasing day by day, it becomes difficult to store and process such large data sets using traditional software. a set of storage devices for storing such vast amounts of data and also a parallel computing model for the analysis of those huge data entries is needed. Hadoop is one such framework that provides reliable cluster storage facility, which stores large amounts of data in a distributed manner using a special file system, called system distributed Hadoop files and provides functions for efficient parallel processing through framework MapReduce . In MapReduce filtered data traffic can be easily recovered, to provide end users with traffic analysis and provide useful predictions.*

