

S.NO	ARTICLE	AUTHOR	YEAR	METHODOLOGY	MERIT/DEMERIT
1	An IoT Architecture for Assessing Road Safety in Smart Cities	Abd-Elhamid M. Taha	2018	Use of machine learning in the design of the metric computation core through a novel application of Hidden Markov Models (HMMs). The impact of the proposed architecture is demonstrated through an application to safety-based route planning.	The Safe-System-based Safe Road Transport Systems, with its elements: safe vehicle, safe road, and safe road user
2	Digitalization of highways for vulnerable road safety development with intelligent IoT sensors and machine learning	RajeshSingh, RohitSharma, Shaik Vaseem Akram, Anita Gehlot, Dharam Buddhi, Praveen Kumar Malik, Rajeev Arya	2021	Digitalization of highways using Internet of Things. Smart highway lighting, smart traffic and emergency management for user safety. Real-time implementation of renewable energy sources like wind, solar and piezoelectric on the highways. Smart display board, and AI on highways for smart Vulnerable Road User model.	Embedding the deep learning techniques in the vision node at the traffic junction and the highway lighting controller is able to deliver an intelligent system that provides sustained experience and management of the highways. Smart reflectors, adoption of renewable energy, developing vehicle-to-vehicle communication in vehicles, and smart lamp post are the few recommendations for the implementation of digitalizing highways.
3	Smart transportation system using IoT	P S Saarika, K. Sandhya, T. Sudha	2017	The sign board with embedded RF module and connected sensors working with solar energy as well as in battery will show the place, distance to that place, weather condition, temperature and different routes to those places.	Problems such as traffic congestion, road safety, accident detection, automatic fare collection and limited car parking facilities can be resolved by IoT.

4	IoT Based Intelligent Transportation System (IoT-ITS) for Global Perspective	S.Muthuramalingam, A. Bharathi, S. Rakesh kumar	2018	Multiple regression analysis, Multiple discriminant analysis and logistic regression, Cojoint analysis, Cluster analysis and other big data analytics techniques will merge with IoT and help to build IoT-ITS will be emphasized.	IoT based Intelligent transportation system (IoT-ITS) helps in automating railways, roadways, airways and marine which enhance customer experience about the way goods are transported, tracked and delivered.
5	Internet of Things Based Solutions for Road Safety and Traffic Management in Intelligent Transportation Systems	Arnav Thakur, Reza Malekian, Dijana Capeska Bogatinoska	2017	Road safety techniques studied include distance sensing, improper driving detection and accident prevention, weather related events and negligent driving detection and accident avoidance. Vehicle to vehicle communication and vehicle to infrastructure based channels are studied. Wireless communication technologies suitable for the channels are studied.	IoT based solutions enabling collection of data from client nodes in a wireless sensor network in the transport environment implementing ITS goals is studied.