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| **Serial Number** | **Journal Details** | **Journal Name** | **Concepts Proposed** |
| 1 | Traffic signal control for an over-saturated signal using Time Series Predictions and Artificial Neural Networks by Fadi Motawej , Rachid Bouyekhf and Abdellah EL Moudeni | Laboratoire des systemes et transports | Their research indicates the testing with a four-way intersection. It utilizes Artificial Neural Networks and Time Series algorithms to predict and direct traffic. |
| 2 | An Intelligent Traffic Information System using Internet of Things and Agent Technology by Hasan Omar Al-Sakran | International Journal of Advanced Computer Science and Applications | He proposed the usage of various sensors on the road and storing the data retrieved from them in a database. The major agents he used were Traffic Monitoring Agents, User Agents, Monitor Agents, RFID Agents, Sensor Agents, Traffic Light Agents and Camera Agents. |
| 3 | The Smart Traffic Management System by Ninad Lanke and Sheetal Koul | International Journal of Computer Applications | They proposed the usage of RFID Controller and Tag. This allows vehicles to be identified and along with the maximum time required for the light to be green as well as red. It also provides the minimum and maximum frequency of vehicular traffic at each junction. |
| 4 | The Smart Light Switching and Traffic Density Calculation by Anurag Kanungo, Ayush Sharma and Chetan Singla | 2014 Recent Advances in Engineering and Computational Sciences (RAECS) | Their system comprises of video cameras that are placed on the junction and the software used in the system include MATLAB for image processing and C/C++ for the algorithmic purposes |
| 5 | ROAD TRAFFIC PARAMETERS PREDICTION IN URBAN TRAFFIC MANAGEMENT SYSTEMS USING NEURAL NETWORKS by Teresa Pamula | Silesian University of Technology | Teresa used neural networks to predict queue length schematics on the road as well as the capacity of multilane roads. |
| 6 | TRAFFIC MANAGEMENT SYSTEM BASED ON PACKET SWITCHING TECHNOLOGY by Heino Hamleers and Frank Hundscheit | World Intellectual Property Organisation | They used various sensors that are built-in to the vehicles that send information to GSM devices. Using these devices they can send information to a server via GPRS. |
| 7 | TRAFFIC MANAGEMENT DEVICE AND SYSTEM by Mark W. Publicover | United States Patent Application Publication | A TCD is to be installed at every junction along with a device that is present in your car. The device present in the car would send signals to the TCD and based on the signals sent the TCD would determine when the light changes to green. |
| 8 | Using AI and Machine Learning Techniques for Traffic Signal Control Management by Professor Sunil Ghane, Vikram Patel, Kumerasan Muralidhar and Abhishek Naik | International Journal of Engineering Research and Technology | A Q Learning Algorithm was used to incorporate reinforcement learning which enables the traffic signals and model to learn through various failed attempts |
| 9 | Smart Traffic Management System for smart cities using Reinforcement Algorithm by D. Venkata Siva Reddy, R. Vasanth Kumar Mehta | International Journal of Recent Technology and Engineering | Deep Learning and Deep Q Learning was used to understand and determine the size and density of traffic and Neural Networks was used to predict and manage the traffic on the road |
| 10 | Smart Traffic Analysis using Machine Learning by Adhitya Krishna K.V.S, Abhishek K, Allam Swaraj, Shantala Devi Patil, Gopala Krishna Shyam | International Journal of Engineering and Advanced Technology | This project utilized RFID Tags to get vehicular information and used Random Forest to predict and analyse traffic flow |