Predicting Traffic Flow with Neural Networks

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Abstract: *The monitoring and analysis of traffic flow has become crucial for transportation planners to best schedule road infrastructure repair projects as well as for people to better plan and manage their daily commutes. Therefore, one of the most crucial needs of traffic management systems is the capacity to precisely predict the type of traffic stream. In this study, we will give an intelligent approach to traffic flow prediction using actual data from the Central Road Research Institute (CRRI), India for the years 2018 and 2019. The suggested method is to train a neural network model to predict traffic flow on an hourly basis in the future. The simulation's conclusions provided a reliable forecast for the traffic statistics*

Keywords: Traffic Flow; Prediction; neural network; deep learning