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TITLE OF INVENTION	IML- TRAFFIC PREDICTION: INTELLIGENT TRAFFIC PREDICTION USING MACHINE LEARNING.
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(57) Abstract :
Patent Title: IML- Traffic Prediction: INTELLIGENT TRAFFIC PREDICTION USING MACHINE LEARNING. ABSTRACT My Invention IML- Traffic Prediction • is a Real-time and machine learning high-fidelity spatiotemporal data on intelligent transportation networks can be used to learn about higher traffic behavior at different times zone and defined locations. The invention is potentially resulting in major savings in traffic headache, time, and fuel. The Real-world data collected from intelligent transportation networks can be used to incorporate complex datas intrinsic behavior into a real-time-series mining technique to enhance its accuracy (approx100%) for traffic prediction. For example, the spatiotemporal behaviors of rush hours and events can be used to perform a more accurate prediction of both short-term and long-term average speed on road-segments, even in the presence of infrequent events (e.g., accidents). Taking historical rush-hour behavior into account can improve the accuracy of my invention predictors by up to 87% and 98% in short-term and long-term predictions, respectively. Moreover, the impact of an accident can be incorporated to improve the prediction accuracy by up to 99%. The invention with real-time world complex data, we have identified fixed characteristics of complex traffic data, such as temporal complex patterns of rush hours or the spatial impacts of accidents, which can be incorporated into a data-mining technique to make it much more accurate. The example, for free-defined generic time-series, the observations made in the immediate past are usually an excellent indication of the long-term future. However, for traffic real-time series, this is not true at the edges of the rush hours. In that case, the historical observations (perhaps for that same day, time, and location) can be better predictors of the future. The invention of an auto-regression algorithm such as ARIMA and other required algorithms to Forecasting and control which by itself capture sudden changes at the temporal boundaries of rush hours can be more enhanced by incorporating available patterns.

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