



RESEARCH ARTICLE

Vehicular Ad-Hoc Network a Comparative Study and Simulation

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Abstract— Here we present performance evaluation of different routing protocols such as SIFT, GPSR and GOSR using different mobility models like Fluid Traffic Model (FTM), Intelligent Driver Model and Random Waypoint Model (RWM) with Intersection Management (IDM-IM). We present simulation results that demonstrate the importance of choosing a mobility model in the simulation of a Vehicular Network Protocol. Here, we Simulate the performance of Simple Forwarding over Trajectory (SIFT), Greedy Perimeter Stateless Routing (GPSR) and Geographical Opportunistic Forwarding (GOSR) in Vehicular Ad-Hoc networks metropolitan environments. The performance evaluations are important to improve the routing efficiency in metropolitan Vehicular networks environment. We will simulate the protocols against node speed. We will find that SIFT is better than GPSR and GOSR for most of the performance metrics used in this Simulation.

Key Terms: - Mobility Models; GOSR; GPSR; SIFT; VanetMobiSim

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