Abstract

Real-time safety and non-safety applications for vehicular ad hoc networks (VANETs) requires understanding of the network topology characteristics since these parameters determine both the performance of routing protocols and the feasibility of an application over VANET. VANET support a large spectrum of mobile distributed applications that range from traffic alert dissemination and dynamic route planning for context-aware advertisement and file sharing.

In this paper, we investigate the use of vehicle-to-vehicle (V2V) communications to enable the navigation of traffic intersections and to mitigate collision risks so that to increase intersection throughput significantly. We will focus on City Roads Using Real-Time Vehicular Traffic and compared them with protocols representative of mobile ad hoc networks and VANETs. Simulation will be done using urban city maps settings and they will evaluate performance best in terms of average delivery rate.

References


15. MEHGDADI, Vahid. "Vehicular Ad-Hoc Networks (VANET) applied to Intelligent Transportation Systems (ITS)."


Index Terms

Computer Science  Networks

Keywords

Vehicular ad hoc networks, RSU Communications, Mobility.