Abstract

For accurate network performance analysis of routing protocols and access technology for VANET (Vehicular Ad hoc Network), realistic road map scenarios are required. This paper refers to analysis of network performance for VANET using existing MANET routing protocols under IEEE 802.11p standard. Simulation of routing protocols for VANET using realistic road map scenarios provides accurate results and can be useful for design and deployment of
Analysis of Routing Protocols for VANET using Real City Map Scenarios

VANET applications. For VANET, speed of mobile nodes affects the routing path stability. It is important to use real world mobility models; so that the results obtained from the simulation of VANET routing protocols correctly reflect the real-world performance. In this paper, analyses the performance in terms of throughput, packet delivery ratio and packet loss. Comparison of routing protocols is done based on how it behaves when network density increases. Routing protocols like AODV, DSR and GPSR are used for performance analysis. GPSR shows better performance over other two protocols for the considered city map.

References

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Index Terms

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Ieee 802. 11; Manet; Routing Protocols; Vanet;