Abstract

Vehicular Ad-Hoc Network or VANET is a subset of Mobile Ad-Hoc Network or MANET that provides communication between vehicles and between vehicles and road-side units with an aim of providing efficient and safe transportation. A vehicle in VANET is considered to be an intelligent mobile node which is able to communicate with its neighbours and other vehicles in the network. VANET introduces more challenges as compare to MANET because of high mobility (Movement) of nodes and fast topology changes in VANET. It ensures that established routing paths do not break before the end of data transmission. Various routing protocols have been designed and presented by researchers after considering the major challenges involved in VANET. This paper provides a survey of Ad hoc On-Demand Distance Vector or AODV routing protocol in urban city traffic scenario using SUMO and network performance using NS2 using network parameters such as packet delivery ratio, throughput and delay for VANET.
4. Ian D. Chakeres and Elizabeth M. Belding-Royer. AODV Routing Protocol Implementation Design
8. International Journal of Computer Applications (0975 –8887) Volume 123 –No.10, August 2015 Vehicular Ad hoc Network sand its Applications in Diversified Fields Raju Barskar, Meenu Chawla
10. SUMO version from https://sumo.dlr.de/wiki/Downloads

**Index Terms**

Computer Science  
Networks

**Keywords**

VANET, AODV, SUMO, NS2, MOVE, XGraph, Mobility Simulator