Abstract

An ad hoc network of vehicles (VANET) consists of vehicles that exchange information via radio in order to improve road safety, traffic management and do better distribution of traffic load in time and space. Along with this it allows Internet access for passengers and users of vehicles. A significant characteristic while studying VANETs is the requirement of having a mobility model that gives aspects of real vehicular traffic. These scenarios play an important role in performance of VANETs. In our paper we have demonstration and description of generating realistic mobility model using various tools such as eWorld, OpenStreetMap, SUMO and TraNS. Generated mobility scenario is added to NS-2. 34 (Network Simulator) for analysis of DSR and AODV routing protocol under 802. 11p (DSRC/WAVE) and 802. 11a. Results after analysis shows 802. 11p is more suitable than 802. 11a for VANET.

References

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Index Terms

Computer Science

Keywords

Reality Mobility Model  802. 11p  Vanets.