Abstract

Vehicular Adhoc network has gained popular attention in last few years due to the provision of safety and comfort related applications. VANETs are direct offshoot of MANETs but with unique characteristics like high speed, dynamic changing topology and difficult communication environment. Due to these unique features, routing in vehicular network has always been a challenging issue but besides efficient routing very less attention is being paid in the area of load balancing. So in this study, load optimization/management in VANET is focused and a new protocol is introduced with new metric i.e. local delay which uses interface queue length. The new protocol is an extension of conventional AODV and it is modified according to VANET parameters. The protocol is simulated on Ns2.34 and the performance analysis shows that the new protocol is better than AODV in terms of PDR and EED.

References

- C. Liu, J. Kaiser, A survey of mobile adhoc network routing protocols, university of Ulm
- Marc Greis’s Tutorial for UCBLBNL/VINT Network Simulator “Ns”, http://www.isi.edu/nsnam/ns/tutorial
- Ben Ding, Z. Chen, H. Yu, An improved AODV routing protocol for VANET, IEEE Explore, ieeexplore.org

Index Terms
Computer Science
Wireless

Keywords
VANET ns2 pdr nrl speed aggregate interface queue length end to end delay etc.