Abstract

Every node in Mobile Ad hoc Network (MANET) is freely moves and independent. The dynamic nature of topology in MANET is creating the problem in routing, due to that the routing protocols for MANET is separately designed. In this paper the AODV unipath and AOMDV multipath are one of the, are considered for research. The AOMDV maintained the alternate routings possibilities so that they can be utilized when the primary path fails but the unipath are not handled the situation if the congestion is occurred. The single path protocol is not capable (without modification in routing procedure) to handle congestion. In this paper, we classify the congestion control capability of AODV and AOMDV routing protocol. The AOMDV is balanced the load by that the packets dropping due to congestion is minimized and enhanced routing
performance. The simulation results show that the AOMDV is provides the better performance than AODV routing protocol. The AOMDV significantly increase the packet delivery ratio and decrease the average delay, the performance is better than other protocols.

Refer
ences

- Jingyuan Wang, Jiagtao Wen et. al. in his work titled "An Improved TCP Congestion Control Algorithm and its Performance"; 2011 IEEE.
- M. Ali, B. G Stewart et. al. In his work titled "Multipath Routing Backbones for Load Balancing in Mobile Ad Hoc Networks"; 978-1-4673-0784-0/12, 2012 IEEE.

Index Terms

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