Abstract

A mobile ad-hoc network has certain characteristics such as dynamic topology, limited bandwidth, and energy-constraint etc, which imposes new demand on the routing protocols. This work specially aims to study and investigate the performance of one proactive routing protocol-DSDV and two reactive protocols-AODV and DSR for mobile ad-hoc networks under both CBR and TCP traffic patterns using network simulator NS-2. Based on extensive simulations, we present a comparative analysis of these routing protocols covering performance metrics such as packet delivery ratio, average end-to-end delay, normalized routing load, and average jitter. We will investigate the effect of varying number of sources and node density on MANET routing protocols.
Performance of MANET Routing Protocols considering Impact of Node Density under Different Traffic Patterns

References

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Index Terms

Computer Science
Keywords
MANET  DSDV  AODV  DSR  CBR  TCP