Effect of Mobility on Performance of MANET Routing Protocols under Different Traffic Patterns

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Abstract

The mobility of nodes in a mobile ad-hoc network results in frequent changes of network topology making routing in MANETs a challenging task. The primary objective of this work is 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 in terms of 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 mobility speed of nodes on MANET routing protocols. Here, NS-2 simulator is used for performing various
simulations and awk scripts are used for analyzing the simulation results.

Reference

7. NS by example available at http://nile.wpi.edu/NS

Index Terms

Computer Science Communications

Key words

MANET
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