Abstract

Mobile Ad-hoc Network (MANET) is a network of heterogeneous and homogeneous wireless mobile nodes to offer provisionally communication facilities to users for the exchange of data packets without having the well-established infrastructure in a limited geographical area. Resource-constrained mobile nodes are not a permanent part of the network instead mobile nodes are individualistically can join or leave the network at any time. Network topology, connectivity of nodes and routing information change dynamically based on multi-hop routing. The main focus of this research work is to evaluate the performance of DSR, TORA reactive routing protocols and OLSR proactive routing protocol of MANET under augmentation of Nodes Density investigation based on Random Way Point (RWP) mobility model. DSR, TORA, and OLSR protocols are simulated by using OPNET modeler 14.5 by creating three different scenarios. These protocols are compared and analyzed with respect to Wireless LAN delay, Wireless LAN throughput, Wireless LAN network load, Routing traffic send and Routing traffic received.
References


Index Terms

Computer Science  Networks
Keywords

MANET Routing Protocols, DSR, TORA, OLSR, Nodes Density.