Abstract

In recent years, mobile and wireless networks have witnessed a tremendous rise in technological advancement. Due to dynamic changing environment of MANET, it is desirable to design effective routing algorithms that can adapt its behavior to rapid and frequent changes in the network. In this paper, we propose an Optimized Reliable Ad hoc On-demand Distance Vector (ORAODV) scheme that offers quick adoption to dynamic link conditions, low processing and low network utilization in ad hoc network. By implementing Blocking Expanding Ring Search (Blocking-ERS) and retransmission of data packet in ORAODV, it provides satisfactory performance in term of packet delivery ratio (PDR), normalizing routing load (NRL) and delay for different network density in term of number of node, various mobility rates.

Reference


Index Terms
- Computer Science
- Data Communication

Key words
- MANET
- Optimization