Abstract

MANET provides a good platform for any time anywhere networking. Nodes in MANET communicate via wireless multi hop links. Due to frequent node movement routing algorithm in wired network is not suitable for MANET. AODV is the most popular routing algorithm. Route maintenance is the major issue in AODV when there is only one path is established between source and destination. Wireless link breakage is higher in ad-hoc networks due to the node movement, so alternative paths are needed for the route maintenance. This paper gives a new idea to discover multiple node-disjoint routing paths. This extended AODV balances energy and traffic load on whole network to increase the network lifetime. Simulation results show that the performance of proposed Maximum Multipath AODV (MM-AODV) is much better than that of existing AODV.

References


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Performance Analysis of Node-Disjoint Multipath in MANET: A Modified Approach

Index Terms

Computer Science

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Keywords

MANET; AODV; Multipath Routing Protocol; Node Disjoint Multipath; NS2