Abstract

Mobile Ad hoc Networks (MANET) use a communication technique that can transmit data between nodes without the support of fixed infrastructure. In MANET, each node has the freedom to join, leave, and move around the network. This movement creates a highly dynamic environment that effects packet routing. Therefore, efficient packet routing is one of the most challenging problems in MANETs. The aim is to find the most suitable path from source to destination, with the ultimate goal being to establish efficient route and efficient message exchange within MANET. A restricted flooding and directional routing (RFDR) algorithm for MANET is proposed in this paper which eliminates the data transmission delay limitation and
 Restricted flooding and Directional Routing for Wireless Mobile Ad-hoc Network

increases the number of delivered packets. Quadrant based directional routing is used towards the destination node to restrict flooding of packets in network. MANET concepts may be used for emergency rescue operation. It is used for social events where the number of mobile users changes frequently and the capacity available for fixed infrastructure is insufficient, military applications & wireless community networks.

References


Index Terms

Computer Science

Wireless Networks
Keywords
Manet Routing  Directional Routing Protocol  Restricted Routing Algorithms