Abstract

A mobile ad hoc network consists of wireless nodes that move frequently. Movement of nodes results in a change in routes, requiring some mechanism for determining new routes. In this paper we propose an approach to utilize location information to improve performance of routing protocols for ad hoc networks. We propose a node-disjoint location based multi-path routing protocol (Location-BMP) for mobile ad hoc networks to reduce the number of broadcast multi-path route discoveries and the average hop count per path from the source to the destination. During route discovery process, the intermediate nodes include their location information along with the distance in the Route-Request (MP-RREQ) packet. The destination node selects a set of node disjoint paths from the MP-RREQ packet received and sends a Route-Reply (MP-RREP) packet on each of the node-disjoint paths.

References

- Marina M. K. and S. R. Das: On-demand Multipath Distance Vector Routing for Adhoc
An Efficient Location based Reactive Multi-Path Routing Protocol for Manet


**Index Terms**

Computer Science

Reactive Multi-Path Routing Protocol, Manet, Reactive Multi-Path Routing Protocol, Manet, Route Request Algorithm.

**Keywords**

Reactive Multi-Path Routing Protocol