Abstract

A Mobile ad-hoc Network (MANETs) is an infrastructure less network consist of mobile nodes which communicate with each other. MANETs have dynamic topology, limited bandwidth and limited power of mobile nodes. Routing is the challenging task in MANETs due to its characteristics. As wireless network grows in size, complexity and demand, effective load balancing becomes the crucial part of MANET routing protocols. For the sustained network functionality, load balancing mechanism need to compute energy aware paths with lesser load. In this paper, we have devised an alternative approach to select the primary path using any multipath algorithm on the basis of energy, load and delay parameters. Proposed approach is integrated in AOMDV protocol for simulation. Comparison is done between I-AOMDV and original AOMDV. Simulation results shows that I-AOMDV improves the overall performance of the network.


24.  

Index Terms

Computer Science  Networks

Keywords

AOMDV, Congestion Control, Load Balancing, Routing Protocols