Abstract

In this paper, Mobile Ad hoc Networks (MANET) is wireless networks consisting of a collection of mobile nodes without fixed infrastructure. According to decentralized, self-configuring and dynamic nature, MANETs offer many advantage and easy to install. But with this dynamic topology, MANETs have some challenges like the design of an efficient routing protocol. The multiple paths routing protocol with load balancing provides a solution for the congestion network and increases its capacity. MANET consists of a set of mobile nodes which are connected with each other by using radio waves. Load balancing is the way of improving the performance of a parallel. The central administration, hence it is called infrastructure less network. It is very difficult to find the path between two end points. This paper shows a solution for finding path between nodes in mobile ad hoc network. The multipath routing protocol with Load Balancing (LB) provides a solution. The results of this algorithm shows better throughput as compared to existing result. In this paper, the result show the performance analysis of various load balancing algorithms based on different parameters. The analysis represents that static and dynamic both types of algorithm can have advancements as well as weaknesses. Deciding type of algorithm to be implemented will be based on type of parallel applications to enhance the Quality of Service (QoS).
Multiple Load Balancing to Support Non-Congestion based Multicast Routing in Adhoc Network

References

- R. Motwani and P. Raghavan, "Randomized algorithms," ACM.
- Marina M. K., Das S. R., "Ad hoc On-demand Multipath Distance Vector Routing," Computer Science Department, Stony Brook University, 2003
Multiple Load Balancing to Support Non-Congestion based Multicast Routing in Adhoc Network

Index Terms

Computer Science                      Wireless

Keywords
Load balancing (LB)  MANET  multipath routing protocol  QoS