CONGESTION CONTROL AND LOAD BALANCING IN MOBILE AD-HOC NETWORKS BY MULTIPATH ROUTING

IMRAN TAMBOLI[1] AND SHITALKUMAR JAIN[2]

[1] M.E Computer Engineering, Department of Computer Engineering,
MIT Academy of Engineering, Alandi(D), Pune, India.
[2] Associate Professor, Department of Computer Engineering,
MIT Academy of Engineering, Alandi (D), Pune, India

Abstract

Mobile Ad-Hoc Networks (MANETs) are infrastructure-less networks. MAENT nodes are mobile, hence possess unpredictable behavior. Due to this, packet loss is main reason for congestion in the MANETs. An efficient routing mechanism is needed to curb the congestion. Multipath routing strategy which aids in load balancing is designed. The main objective of multipath routing protocol is to provide reliable communication and to ensure load balancing as well as to improve QoS in MANETs. We have proposed multipath routing protocol which discovers and utilizes set of multiple paths by balancing the load in the network thus it lessen the congestion.

Keywords : Mobile Ad-Hoc Networks (MANETs), Multipath routing, Quality of Service (QoS), Congestion