Abstract

Real time video multicast has always been a topic of active research for almost all types of computer networks. With the shift of focus towards Mobile Ad-hoc Networks (MANETs), several approaches have been suggested for the creation and maintenance of multicast trees in the dynamic and unpredictable environment of MANETs. This paper presents a simple and novel approach for Multicasting in MANETs that is particularly suited for multicasting live video/audio streams. The approach is lightweight, scalable and is general that it can be made to work with any underlying unicast routing protocol such as AODV, DSDV, and DSR among others. The paper describes the protocol in details including how a node will join or leave a multicast session; how the multicast tree is maintained and how it copes with the mobility of nodes.
References


Index Terms

Computer Science

Networks
Keywords
Multicast Tree Management  Multicast Tree Maintenance  MANET  Mobile Ad-hoc Networks  Scalable  Lightweight  Multicasting.