Abstract

MANET is a wireless network, in which mobile nodes are connected, these nodes are movable in nature, thus topology of the network changes frequently. To communicate in a frequently changed scenario is a difficult task to do, an efficient routing technique is required to provide better solution for such problems. There are various routing techniques presented by the researchers. There are techniques AODV, DSDV, DSR etc. presented, which used to provide routing solution in MANET. But these technique suffers some defects like low PDR, consumes more time to deliver packet etc. OLSR (Optimized Link State Routing) uses predefined links to transmit packets that provide enhanced functionality deal with various routing issues which occurs in MANET. In that optimized links between source and destination are provided to transmit packets. But in that multiple paths to the destination is provided. To provide optimized path to the user a selection of the optimized path is required. That degrades performance of the whole technique. User need to wait for a long duration to select optimized path. A new one-hop clustering based technique is presented. In that a clustering technique is used to provide a single link for the one node to the other node. In that way an easy mechanism to search
optimized route is provided by the proposed technique. A performance analysis for the proposed technique is presented in result and analysis Section which shows that proposed technique performs better as compare to the existing technique.

References


Index Terms

Computer Science

Wireless
Keywords

MANET, OLSR Modification, PDR, DSDV.