Abstract

Due to random mobility of nodes in MANETs, the connectivity of the nodes in very sensitive environments become a serious issue and is subject to increased risk of damage. Sometimes a MANET suffers from the simultaneous failure of multiple multicast paths and gets partitioned into disjoint segments. In order to avoid poor performance of a multicast/ unicast routing protocol and to curb the adverse affect on an application performance, it is essential to restore the network connectivity. In this research work, we proposed a novel strategy, designed and implemented to restore the connectivity in MANET as well as to compute Steiner minimum spanning tree.

Reference


Index Terms

Computer Science

Wireless Networks
Key words

Edge disjoint minimum spanning trees
K-Connected MANETs
Connectivity Index
Route Failure Tolerance
Steiner minimum spanning tree