Restoring the Connectivity in K-Connected MANET When All Edge Disjoint Minimum Spanning Trees Fail

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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

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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