Abstract

MANET (Mobile Ad hoc Network) is a wireless self-organized distributed network. This paper gives a general survey of research on local repair of link, if it is broken during communication for MANET and proposes a new local repair scheme in order to make up the deficiency of the existing local repair schemes. The improved local repair scheme concerns about the over head
requirement and end to end delay in transmission. Nodes are required to keep the next
two-hop node address for each route entry in routing table. During local repair, the repairing
node use Ant algorithm for finding new route for next to next node in the link considering that
other part of the link is already in existence. Reduced size of F-ANT and B-ANT will give
significant reduction in overhead. In this case repairing node not only tries to discover the route
to the destination node of data packet, but also attempts to establish the route to its
downstream node (i.e. the next hop node). The proposed algorithm will be highly adaptive,
scalable and efficient and mainly reduces end-to-end delay in high mobility cases.

References

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Index Terms

Computer Science Wireless

Keywords

Routing protocol AODV link break

Ant colony

local repair

Ad hoc mobile networking