Algorithm to Detect and Overcome the Black Hole Attack in MANETs

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Authors:

Heta Changela, Amit Lathigara

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Abstract

In Mobile ad-hoc network to resolve security or any other issue, broadcasting is the common factor in networking. MANETs is very new concept and gives us to very different direction to the internet and when we use it, it will become reduce the cost of both the network i.e. with infrastructure and infrastructure less networks. Mobile Ad-hoc network not need backbone infrastructure support and easy to detect in wireless ad-hoc network is very reliable and also contains the routable networking environment in MANETs. In our paper, the effect of black hole attack in AODV based network is studied. The network parameters like Throughput, Packet Delivery Fraction (PDF) and Average End to End Delay are calculated with normal network (without black hole) and a network with one black hole. The performance of network parameters are compared in all the three scenarios. We proposed some scheme is able to finding string of single malicious nodes which drops all the packets.

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**Index Terms**

Computer Science  Wireless

**Keywords**

MANET, Black hole Attack, AODV