A Novel Approach for Detecting Black Hole Attack in MANET

Abstract

The communication in Mobile Adhoc Networks play a vital role in situations like natural calamities or military operations, but due to the dynamic nature of the adhoc networks, it is very important to take care of the security issues, one of the major security issues is the detection of compromised node. The calculation of trust values on the neighboring nodes can significantly solve this problem. This paper presents the calculation of trust values based on the threshold value, if trust value of a node goes beyond the predefined threshold, it is considered to be malicious. The trust value of a node is calculated by taking average of all the trust values for the node. The proposed scheme will be able to detect and isolate the compromised node from the network.

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Index Terms

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MANET  threshold trust  trust calculation  trust