Abstract

Wireless ad hoc network is a collection of mobile nodes and all nodes behave as router or host. Due to its dynamic nature and lack of central authority security is challenging task. The nodes of network may compromise from the various security threats and can leak the personal information. Numerous security threats such as Denial of Service, black hole attack, Gray-hole attack, Worm hole, Sybil attack and jamming may be used by attacker to damage the network security. Gray hole attack is one the security threat which selectively drop the packets. In this paper, proposes an probabilistic approach with IDS (Intrusion Detection System) which detect and mitigate the gray hole attack effectively. The simulation of the propose approach is done in NS2.34 network simulation and comparative analysis is perform among the performance metrics such as Throughput, Packet Delivery Ratio and Routing load etc.

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**Index Terms**

Computer Science   Wireless

**Keywords**