

## **DETECTION AND PREVENTION OF BLACK HOLE ATTACK IN MANETS**

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### **ABSTRACT**

A Mobile Adhoc network (MANET) is a self-configuring network which consists of mobile nodes connecting each other without any infrastructure. Each node can send packets to other nodes through intermediate nodes and these intermediate nodes acts like router. AODV (Adhoc on demand distance vector) is a loop free reactive routing protocol used in these networks for the routing operation. These MANETs are open to many attacks, of which blackhole attack is one of the passive attack which drops the packets without forwarding them to the neighboring nodes. In this paper, an algorithm is developed to detect and bypass the attacker without disturbing the data packets and thereby create a safe path for the packet to reach the destination.

**KEYWORDS:** ADHOC Network, AODV, Blackhole Attack, MANET