

Abstract Details

Title: CBRM-AODV: A Countermeasure Technique to Handle Collaborative and Cooperative Attacks on Network Layer

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Abstract: Ad hoc networks gain popularity due to their vast application in different areas. The popularity gain also increases security risk. Various layer-wise attacks exist to degrade the performance of routing protocols in the ad hoc network. This paper handles the network layer attack particularly blackhole, wormhole and grayhole attack in the AODV routing protocol. This paper designs a technique to handle the collaborative and cooperative network layer attacks. The result analysis on different network shows the significance of the technique as improved PDR, throughput achieved even in the presence of attacks.

Keywords: Blackhole, Wormhole, Grayhole, AODV, Security.