

# **INTELLIGENT INTRUSION HANDLING FOR MITIGATING MANET ROUTING ATTACKS**

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## **ABSTRACT**

Mobile Adhoc Networks are autonomous and decentralized wireless systems. Security in MANET is one of the most important concern for basic functionality of the network. MANETs often suffer from security attacks because of its characteristics like lack of fixed infrastructure, dynamism of topology, resource constraints, open medium and no clear defense mechanism. Routing in such a network becomes more complex because of its dynamic topology. So routing attacks have become a challenging task in MANET. In this paper, I propose a intelligent intrusion handling mechanism with an adaptive isolation method to resolve routing attacks in MANET. The intrusion handling mechanism make use of Extended Dempster Shafer theory that treat attacks according to their importance. The mechanism make use of Optimized Link State Routing protocol that reduces the possible overhead in the network protocol by using Multipoint Relays.

**KEYWORDS:** Routing Attacks, Extended Dempster Shafer Theory, OLSR