Abstract

Vehicular Ad hoc Network is one of the interesting and attractive topics in the recent years. It has a potential to achieve intelligent inter vehicle communication for the benefit of the vehicle user. The VANET has lot of challenges. These decentralized dynamic networks require a secure communication. These networks are vulnerable to various attacks. In this paper the security features of routing protocols and about the black hole attacks are examined and an enhanced DSR algorithm called MDSR protocol to detect and prevent from black hole attack is proposed. The simulation is performed in NS2. The simulation result ensures that the attack detection by using Modified DSR (MDSR) protocol for message authentication provides a secured communication.

References


**Index Terms**

Computer Science  
Wireless

**Keywords**

VANET, security, AODV, DSR, Black Hole attack, Packet delivery Ratio, End-to-end delay