Abstract

A Wireless Sensor Network (WSN) comprises of devices that are autonomously distributed in space used to supervise the physical and environmental conditions with the help of sensors. They are mainly used in security critical applications such as monitoring the environment, tracking the surroundings and controlling areas. Security is an important requirement in WSNs. Because of the resource limitation and computational constraints the WSNs are transparent to various security attacks. Black hole attack is a serious attack which badly affects the packet transfer from source to destination. Here the Active Trust scheme is used to avoid the Black hole attack. The Active Trust scheme avoids the black holes through Active detection routing and data routing which improves the route security. The results obtained will indicate that the Active Trust scheme can achieve the same throughput as that of the normal Wireless Sensor Network without black holes. This shows the importance of Active Trust scheme in black hole attacks.

Index Terms

Computer Science

Wireless

Keywords

Active Trust, Black holes, Throughput.