Transmission Time based Detection of Wormhole Attack in Wireless Sensor Networks

Abstract

The open nature of wireless communication channels, lack of infrastructure and fast deployment practices make vulnerable to wide range of routing attacks. One of the most popular attacks is wormhole attack. The transmission time based detection of wormhole attack is proposed and is simulated in Network simulator (ns-2). The detection accuracy of the network is analyzed. The proposed method does not require any specific hardware.
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Index Terms

Computer Science     Security

Keywords

Routing Attacks    Time    Wireless Sensor Networks    Wormhole Attack