Abstract

The wireless sensor network is used to solve problems in real world such as industrial and environmental Sensing. There are two types of Wireless Sensor Network, Mobile and Static. They are the Wireless Sensor Network are prone to attacks. The most prominent attack in Wireless Sensor Network is node replication attack were the nodes are replicated virtually. The replicated node captures the key or id of the node, makes copies of the node in the network with the same id and may cripple the entire network. It is even more difficult to detect them if they are in a mobile network. The scheme proposed is for a mobile Wireless Sensor Network where the location makes the detection of replication attack even more challenging. The proposed scheme will not only trace the location using array of the locations in the mobile sensor network,
but also detect the replicas using multiple scenarios such as id recognition and neighbor replica detection. The scheme can efficiently detect and make way for defense in the network.

References


Index Terms

Computer Science       Security

Keywords

Mobile Wireless Sensor Network   Randomized Multicasting   Line Selected Multicasting