Abstract

With the recent advances in wireless sensor technologies, sensor networks have been used in many applications. One of the applications is subject monitoring and tracking, where the locations of the monitored objects are quite sensitive and need to be protected. So event source anonymity is an attractive and critical security property. For event source anonymity, the concept of source location privacy has been implemented against both local (mote-class) and global (laptop-class) adversaries. In this paper, a scheme called Boundary probabilistic
algorithm is proposed to protect against laptop-class attacks. Moreover, a comparison of this proposed scheme with two existing schemes namely- Naive algorithm and Probabilistic algorithm is proposed. In the proposed Boundary Probabilistic algorithm, filtered dummy messages for achieving source location privacy are used. Through simulation results, the proposed scheme is illustrated, the message complexity is reduced. Moreover the delay of the real event message to reach the base station is reduced.

References


**Index Terms**

Computer Science  
Wireless

**Keywords**

Source Location Privacy (slp)  
Sensor Network.