Abstract

Wireless sensor network is a collection of large number of low cost resource constraint sensor nodes that are communicating using wireless medium. Sensor nodes are resource constrained in memory, sensing, communication capability, computational capability, battery power. Communication requires more power in sensor networks. One of the solutions to reduce number of bits transmitted is data aggregation. Data Aggregation is a process of aggregating data coming from different source using aggregation function to reduce redundancy in the Transmitted data. The aggregated results have great impact in accuracy and robustness of the final result get from the base station. Security is an important criterion to be considered because, wireless sensor nodes are deployed in a remote or hostile environment area that is prone to attacks easily. So data aggregation and security are essential for WSN. Many secure aggregations are proposed in wireless sensor network. But due to resource constrained nature, secure data aggregation also need new approaches. In this survey we are going to compare existing secure data aggregation protocol and their limitations and advantages.


- S. Peter and K. Piotrowski, On Concealed Data Aggregation for Wireless Sensor Networks.


Index Terms

Computer Science
Wireless Networks

Keywords

Wireless Sensor Network  Data Aggregation  Secure data aggregation