Secure Data Aggregation Technique in Wireless Sensor Network: A Survey

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Abstract

Wireless sensor networks (WSNs) consist of sensor nodes. It is a collection of wild number of low cost device constraint sensor nodes that communicates using wireless medium and they are small in size, low battery power and limited processing capability. This restraint of low electricity power of a sensor node and limited energy capability makes the wireless sensor network failure. A data aggregation is very important techniques in wireless sensor networks and it reduces the energy consumption by eliminating redundancy. In WSNs, Sensor nodes are resources constrained in memory, data sensing, and battery power and communication capability. Data communication is the process of communications between nodes that consumes a large portion of the total amount of energy used up for WSNs. One of the solutions to reduce number of bits transmitted during communication is data aggregation. As wireless sensor networks are usually deployed in remote and hostile environments to trajectory sensitive information or data, sensor nodes are affected by attacks. Thus, security is an important issue to be considered in WSNs.
References


Index Terms

Computer Science  Wireless
Keywords

Data Aggregation, Wireless sensor network, security