Abstract

In Wireless Sensor Networks (WSNs), energy of the sensor nodes are the most concerning factor because each sensor is equipped with limited amount of energy which is used to perform lots of work. Sensors have capabilities of sensing, analyzing, processing and communication of the data. In WSNs, the most responsible factor behind energy consumption of the sensor nodes is Data Processing which mainly involves data sensing, data aggregation and dissemination. Sensor nodes needs to process data in such a way that it can generate useful information on spending only affordable amount of energy. The past records shows that in early stages WSNs architecture was based on static nodes of densely deployed sensing areas and after that authors have also proposed WSNs architecture based on mobility with the help of pre-existing techniques and new ideas. A comprehensive survey of existing data processing approaches and their multilevel classification scheme is presented in this paper. The taxonomy together with the comparative tables can be used as a guideline to select a technique suitable for their intended application.
References


Index Terms

Computer Science
Wireless
Keywords

Data dissemination, Data aggregation, Mobile Elements