



Energy Efficient Mobile Relaying in Data Intensive Wireless Sensor Networks

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Abstract— WSN is common in different types of application scenarios. It includes a set of sensor nodes deployed over a geographical area to monitor a variety of phenomenon. WSN become increasingly useful in variety critical applications, such as environmental monitoring, smart offices, battlefield surveillance and transportation traffic monitoring. The sensor nodes are tiny and limited in power. Sensor types vary according to the application of WSN. Whatever be the application, the resources such as power, memory and band width are limited. More over, most of the sensors nodes are throw away in nature. Therefore it is vital to consider energy efficiency so as to maximize the life time of the WSN. This paper presents energy efficient mobile relaying in data intensive wireless sensor networks. The concept of mobile relay is that the mobile nodes change their locations so as to minimize the total energy consumed by both wireless transmission and locomotion. The conventional methods, however, do not take into account the energy level, and as a result they do not always prolong the network lifetime.

Keywords— Data intensive; Energy; Relay; Routing tree; WSN

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