Abstract

Energy efficient design and latest wireless technologies have enabled new exciting applications for wireless devices. The Sensor networks have provided solutions to many problems in the areas of infrastructure, disaster management, military sensing, traffic management etc. and have become one of the most fascinating areas of research in the past few years. These applications require high performance on the network but Wireless devices are often having limited resources because nodes are operated by battery. This creates problem due to limited bandwidth & makes transfer error prone. A wireless sensor network which consists of a group of sensor nodes enables the monitoring of a variety of environments for applications. In WSNs, it is very vital for network to operate for a long time. In this case, data fusion helps to reduce the amount of data exchanged between sensor nodes and base station. The LEACH (Low Energy Adaptive Clustering Hierarchy) protocol is a well-designed solution to this problem. This research paper discusses LEACH protocol is discussed.


**Index Terms**

Computer Science Wireless
Keywords

LEACH, Cluster-base, Data aggregation, TDMA, Steady State Phase, Set-up phase, Cluster-head advertisement