Abstract

In the modern era, Wireless sensor network (WSN) has seen new horizons among the research community. It has largest range of applications in most of the fields. Its beauty lies in its application area and it can be deployed anywhere. WSN has low cost, low power sensor nodes, can be deployed in large numbers and can be even used in hazardous environment. However, the sensor nodes in WSN do not have longer lifetime. Therefore, to meet this challenge of increasing the field lifetime of sensor nodes, the present study seeks to meet this end by using energy harvesting clustering model. Lifetime of the network increased largely by energy harvesting concept and clustering technique applied for effective use of energy. This increases the field lifetime of the sensor nodes before their complete degradation. In this way lifetime of the network improved a lot, which has seen through the experimental results in this paper.

**Index Terms**

- Computer Science
- Networks

**Keywords**

- Cluster heads
- energy consumption
- power management.