Abstract

Wireless Sensor Networks have been used for various purposes in different spaces from the field of industry to our home surroundings because of their capacity to powerfully screen remote areas such as agriculture farm lands, health care system etc [1]. DEC (Deterministic Energy Efficient Clustering) protocol is fast, dispersive, organizing toward oneself and much productive as far as continuity than other of the current protocols. Here presents the Improved DEC (I-DEC) protocol which shows a better performance in comparison to other protocols like
original DEC, LEACH, E-SEP with respect to stability or in terms of energy. Through an experiment it was noticed that in I-DEC protocol the network lifetime has been increased by 132 rounds in comparison to the original DEC protocol. This analysis shows that the approach used in this research, provides an ideal solution for balanced energy consumption in wireless sensor networks.

References

A Deterministic and Dynamic Energy-Efficient Clustering Protocol for Wireless Sensor Networks


Index Terms

Computer Science  Networks

Keywords