Abstract

Wireless Sensor Network is web of sensors node, which has limiting energy. The main issue to design WSNs is, maximum Lifetime and optimal the energy used in network. Different approaches based upon clustering are proposed for optimum functionality. Quadrature-LEACH (Q-LEACH) for homogenous networks is examined with two gateways which is placed in the sensing area, which is used to enhances network life-time and optimal utilization of resources. Performance analysis and compared statistic results show that our proposed protocol perform well in terms of energy consumption and network lifetime.

References

1. M. Ishfaq; Q-LEACH: A New Routing Protocol for WSNs. The 4th International Conference on Ambient Systems, Networks and Technologies (ANT 2013), Procedia Computer Science; Volume 19, 2013, Pages 926-931
2. S. Lindsey and C. Raghavendra, Pegasus: Power-efficient gathering in sensor information
13. Heinzelman, Wendi Rabiner, AnanthaChandrakasan, and HariBalakrishnan.“Energy-efficient communication

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Keywords

Energy efficient, Q-LEACH, Sensor Node