Abstract

The Wireless Sensor Networks (WSN) resides of a large number of sensor nodes that are incomplete in energy, processing power, and storage. The energy of nodes is the most important consideration amid them because the lifetime of Wireless Sensor Networks is incomplete by the energy of the nodes. LEACH is one of the most famous clustering mechanisms; it elects a cluster head (CH) created on a probability model. This paper improves LEACH protocol using Cross Layer LEACH and HEED and Super Cluster Head. Hybrid Energy Efficient Distributed protocol for the heterogeneous wireless sensor network have been reported. The main requirements of the wireless sensor network are to prolong the network lifetime and energy efficiency. Here, Heterogeneous- HEED: A Protocol for clustered heterogeneous for Wireless Sensor Network has been proposed to prolong the network lifetime. These proposed works provide a better result in terms of live nodes, energy dissipation, message cost when compared to traditional leach protocol.


18. Rahmani.N., et.al (2010), "CAT: The New Clustering Algorithm Based on Two-Tier...


**Index Terms**

Computer Science  
Information Sciences

**Keywords**

HEED, WSN, SCH, Protocol, Algorithm etc.