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Abstract

Advances in sensor networks has revealed several low energy sensors which are used to monitor the surroundings in our environment such as plants, factory instruments, transportation, energy, medicines etc. In this paper, an algorithm is proposed which helps in the enhancement of the network lifetime using clustering. Clustering is the method of forming groups of sensor nodes into clusters to preserve the energy. Each cluster has a leader node referred to as a cluster head. The proposed algorithm is an extension to the LEACH algorithm and attempts to reduce the workload on a cluster head. This paper also focuses on the challenges and impact of energy consumption in sensor networks. Further work emphasizes on future direction with its

scope. Results are encouraging for researchers of this domain.

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Index Terms

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