

# “An Efficient & Energy Aware Approach to Increase Lifetime of Clustered Wireless Sensor Networks”

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# **AN EFFICIENT ENERGY AWARE APPROACH TO INCREASE LIFETIME OF CLUSTERED WIRELESS SENSOR NETWORKS**

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## **ABSTRACT**

Wireless sensor networks are mostly used in the transmission of data, to monitor physical or environmental conditions. In the, Wireless sensor networks sensor nodes will have to depends on a limited supply of energy. It is mostly used the energy supply by battery .Replacement of the battery in a field is usually very difficult. A wireless sensor network (WSN) must be operating for a decided time. Therefore, the lifetime of a WSN is one of the most difficult problems. To solve this issue, this paper introduces an efficient and energy aware approach (EEAA).This approach is support mobility. The proposed protocol consider optimal number of clusters by applying a s threshold value, also consider the including the probability of the optimum number of cluster head. Then it also considers residual energy of the mobile nodes. After selecting cluster head rout cast method is used for the improvement the energy parameters. Also is also to increases quality of services it uses link-quality indication based on rssi value. NS-2 simulation results show that proposed approach reduces the energy consumption among the mobile nodes, and thus extends the lifetime of the network compared to existing scheme.