

142. PERFORMANCE ANALYSIS OF WEIGHT BASED SCHEMES FOR EFFICIENT DATA COLLECTION

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Abstract-Mobile sink (MS) is a movable sink which helps for the reduction of energy consumption in wireless sensor networks (WSNs). The energy cannot be recharged because the nodes are randomly distributed in the physical environment. To mitigate energy shortage problem, energy should be effectively utilized to increase the network lifetime. To address energy shortage problem, a weight based schemes EB, DVB, NNB, EDDBS and FB are proposed where in each scheme a selected set of sensor nodes act as rendezvous points (RPs) according to weightage constrain. The sensor nodes will forward data to their nearest RPs. The MS will collect data from the RPs through controlled mobility so that the movement of MS gets controlled. Simulation is done using NS2 and comparison between these different schemes has been performed.

Index Terms Energy consumption, mobile sink, network lifetime, wireless sensor networks.

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