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Clustering Algorithms for Wireless Sensor Networks

Prof. L.R. Latha

Abstract - Literature reported that most of the research in energy efficient data gathering in data centric applications of wireless sensor networks is motivated by LEACH scheme which by allowing rotation of cluster head role among the sensor node tries to distribute the energy consumption over the network. Selection of sensor node for such role rotations greatly affects the energy efficiency of the network. Hence many proposals are reported in the literature suggesting different cluster head selection strategies. However, till now, these strategies have not been talked about for their collective understanding. So, efforts have been made, in this paper to discuss them in unison and present a global view. Comparison of their costs of cluster head selection indifferent rounds and after effects like cluster formation, distribution of cluster heads and creation of cluster shows a need of more energy efficient cluster head selection strategy.