

Genetically Optimized Energy Efficient Clustering Algorithm in Wireless Sensor Networks

Amit Thakur
amitthakurbist@gmail.com

Vikram Garg
vikramgarg85@gmail.com

Abstract – Heterogeneous Wireless Sensor Network (WSN) comprises of sensor nodes with distinctive capability, for example, diverse computing power and sensing range. Contrasted with homogeneous WSN, arrangement and topology control are more perplexing in heterogeneous WSN. Distinctive energy efficient clustering protocols for wireless sensor networks systems and thinks about these protocols on a few focuses, in the same way as clustering method, location awareness, heterogeneity level and clustering attributes. Though, each protocol is not appropriate for heterogeneous WSNs. In this paper, we test Low-Energy Adaptive Clustering Hierarchy (LEACH) and Genetic Algorithm (GA) optimized-LEACH under a few distinctive situations holding high level heterogeneity to low level heterogeneity. To close the conduct of this heterogeneous protocols.

Keywords– Genetic Algorithm, Low-Energy Adaptive Clustering Hierarchy, Wireless Sensor Network.