

## **21. AN EFFECTIVE INFORMATION GATHERING APPROACH BASED ON POLLING POINTS WITH MOBILE COLLECTOR IN CLUSTERED SENSOR NETWORK**

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A huge number of Wireless Sensor Network applications involve in a set of isolated urban areas covered by sensor nodes to monitoring the environmental parameters. The key challenge in the proposal of WSN is being the power consumption of the entire network thereby extending the network lifetime. In Heterogeneous WSN, the use of Single and Multi hop energy efficient clustering protocols (SEECF & MEECF) are aims to be provide good network lifetime and its is more energy efficient protocols. On comparing with these protocols the Multi-hop energy efficient clustering protocol only suits for long distance communication because it shares the energy with intermediate nodes and it has a high packet delivery ratio with some extent of energy consumption. The Single hop communication is the best and more energy efficient for very short distance communication. Now-a-days the communication is widely based on worldwide so, the multi-hop communication is the best for communication. The proposed concept (E-MEECF) aims to increase the packet delivery ratio by controlling the packet loss in energy efficient manner by introducing an effective information gathering approach based on polling points (backup nodes) with the mobile collectors. Here the simulation is based on NS2.

Keywords: clustering, packet delivery ratio, packet loss, polling points, mobile collector.