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### **RESEARCH ARTICLE**

# **A Peculiar Cluster Based Routing in Wireless Sensor Network**

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*Abstract-In wireless sensor networks energy conservation is one of the main problems, since wireless sensor network is used in many sensitive applications such as military surveillance and other applications where accurate monitoring is necessary. We need to reduce energy used by the sensor nodes to increase the performance and lifetime of sensors. Due to high density of nodes in wireless sensor network, the nearby nodes will detect the redundant data while sensing an event. In this case we can save energy by aggregating the data at intermediate nodes. In our work the data is aggregated by forming clusters, this aggregation technique reduces the number of messages exchanged and size thus it reduce the energy consumption of wireless sensor networks and cost of communication. Here we propose a peculiar cluster based data routing for in network aggregation. It reduces the number of messages required for setting routing tree and the numbers of overlapping routes are increased and it provide high aggregation rate.*

**Keywords-** *DCA; wireless sensor networks; routing; sensitivity; data aggregation; cluster*

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