

## **Care: A Cluster Based Approach for Reliable and Efficient Routing Protocol in Wireless Sensor Networks**

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**Abstract :** The main goal of our approach is to find the optimum positions for the sensor nodes, reinforcing the communications in points where certain lack of connectivity is found. Routing is the major problem in sensor network's data transfer between nodes. We are going to provide an efficient routing technique to make data signal transfer to reach the base station soon without any interruption. Clustering and routing are the two important key factors to be considered in case of WSN. To carry out the communication from the nodes to their cluster head, we propose a parameterizable protocol so that the developer can indicate if the routing has to be sensitive to either the link quality of the nodes or the their battery levels.

**Keywords :** clusters, routing, wireless sensor networks, three phases, sensor networks

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