71_Cluster VSCH Routing Algorithm for Enhanced Network Lifetime in WSNs

Cluster VSCH Routing Algorithm for Enhanced Network Lifetime in WSNs

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Abstract:
In real time scenario Wireless Sensor Network (WSN) applications involve densely deployed system of sensor nodes. To design an energy aware network challenge lies in efficient resource utilization for accurate reporting of event occurrence. Appropriate connectivity of nodes in WSN with optimal energy routing is the motivation of our work. Vicinity based routing algorithms with varied node deployment is implemented and the results are analyzed in the light of energy and network efficiency. The nodes in the Region of Interest (RoI) are hierarchically categorized into different levels. For multihop communication, nodes search only in their vicinity for the next higher-level nodes. Position of sink and distance between the nodes along with residual energy are the key parameters considered for evaluation and analysis.

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I. Introduction

Sensors deployed for monitoring an event comprises of a Wireless Sensor Network. Sensed information by the sensor nodes is treated and further communicated to the sink node [1]. Deployment of WSNs mainly includes detection and monitoring of events

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