

Conferences > 2022 13th International Conf...

# Cluster VSCH Routing Algorithm for Enhanced Network Lifetime in WSNs

Publisher: IEEE [Cite This](#) [PDF](#)

Sunayana Jadhav, Vipras Morye, All Authors

17  
Full  
Text Views



- Abstract
- Document Sections
- I. Introduction
- II. Proposed methodology
- III. PERFORMANCE EVALUATION OF PROPOSED MODEL
- IV. CONCLUSION
- Authors
- Figures
- References
- Keywords
- Metrics

**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.

Published in: 2022 13th International Conference on Computing Communication and Networking Technologies (ICCCNT)

Date of Conference: 03-05 October 2022      INSPEC Accession Number: 22448558

Date Added to IEEE Xplore: 28 December 2022      DOI: 10.1109/ICCCNT54827.2022.9984350

▼ ISBN Information:      Publisher: IEEE

Electronic ISBN: 978-1-8654-5262-5      Conference Location: Kharagpur, India  
Print on Demand(PoD) ISBN: 978-1-8654-5263-2

**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

**Need Full-Text**  
 access to IEEE  
 for your organization  
**CONTACT IEEE TODAY**

**More Like This**

- Load Balanced Co-Graded Node Deployment in Wireless Sensor Networks  
IEEE Transactions on Computing Systems: Published: 2017
- Semidefinite programming resource allocation for consumption minimization in software defined wireless networks  
2016 IEEE 27th Annual Symposium on Personal, Indoor, Mobile Radio Communications: Published: 2016



3-3-2  
22-23  
15



*ARupera*

**READ**  
Dept. of Electronics and Telecommunication Engg.,  
Vidya Rajendra's College of Engineering & Technology  
Vasai Road, 401202.