Abstract

A Wireless Sensor Network (WSN) is a critical network defined with restricted resources and constraints. Wireless Sensor Network are used multiple application like security, military and health application. To optimize the network route and network life, under these constraints is always a challenge. In this paper, a multi parameter based hop selection analysis based algorithm is proposed to generate the optimized route over the sensor network based on Residual energy, Failure rate and sensing range using DLQAR protocol. The no. of alive node, dead node, residual energy, energy consumption terms are used to analyze the proposed algorithm. These parameter dynamic analyze the network route and change the network route as per requirements. The proposed work uses the threshold value to perform the critical node elimination. The results obtained show that the proposed algorithm is better as compared to existing algorithm in terms of alive node, dead node, residual energy, energy consumption.

References
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978-1-4503-0449-8/11/02

Index Terms
Computer Science Wireless

Keywords
WSN Routing Constraints Failure Probability