Abstract

Nodes in wireless Ad hoc network have fixed battery life time. If nodes are used continuously for transmission of data packets, extra energy is needed by that node and after proper amount of time the energy level may not be sufficient for data transmission resulting in link failure. In this paper, two energy routing algorithm-Minimum power consumption Routing (MPCR) & Minimum Battery cost Routing (MBCR) have considered and studied their performances in terms of power required for the same network geometry. Simulations are carried out using MATLAB. Finally from the simulation results concluded that MBCR consumes less overall power as compare to MPCR.

References

Comparison between Minimum Power Consumption and Minimum Battery Cost Routing for Energy Management in Wireless Ad Hoc Networks

- Krishan Kumar Raman, Manav Rachna; Transmission energy management for wireless ad-hoc network; 978-1-4 799-2995-5/14/$31.00©2014 IEEE.
- C. Siva Ram Murthy and B. S. Manoj; Ad Hoc Wireless Networks Architectures and Protocols; Pearson Education Inc. p. no. 600-623.

Index Terms

Computer Science

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Keywords

MPCR MBCR Energy management Power consumption