Abstract

The main problem concerning laptops and handheld devices is the limited battery power, their batteries lifetime have a significant impact on the performance of ad hoc networks since nodes in ad hoc networks need to relay their packets through other nodes. In this paper, fuzzy controllers take number of hops, packet queue occupancy, and remaining energy along the paths into account while picking routes. The proposed fuzzy routing method is evaluated and compared with conventional AODV routing in terms of packet delivery ratio, average of end to end delay, and average of energy consumption per node using OMNeT++ 4.0 simulator.

References

- D. Nitnaware and A. Verma, "Energy Constraint Node Cache Based Routing"

Index Terms

Computer Science Wireless Networks

Keywords
Manets aodv Routing Protocol energy Fuzzy Controllers