

POWER AWARE ROUTING PROTOCOL FOR MOBILE AD HOC NETWORKS

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ABSTRACT

Ad hoc wireless networks are power constrained since nodes operate with limited battery energy. To maximize the lifetime of these networks network-related transactions through each mobile node must be controlled such that the power consumption in all nodes are reduced. Assuming that all nodes start with a finite amount of battery capacity and that the energy dissipation per bit of data and control packet transmission or reception is known, this paper presents a new routing protocol for mobile ad hoc networks that increases the network lifetime. Simulation results show that the proposed power-aware routing protocol has a higher performance than other source initiated routing protocols in terms of the network lifetime.

In this paper Since we are considering the routing table generated for routing information on PAR, flooding of route request is reduced. Which was the major drawback in many of the flooding techniques.

Energy consumption comparison of different protocols are taken into consideration and also how energy consumption is reduced using PAR is implemented in this paper.