Power Aware Multicasting based approach for power consumption in MANET

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ABSTRACT

A mobile Ad–hoc network (MANET) is a dynamic wireless network. It is infrastructure less i.e. topology changes dynamically. For evaluating Quality of Services (QoS) of MANET, we need to consider throughput, end to end delay, battery life time etc.

In this dissertation we have surveyed power aware routing protocol such as Efficient Power Aware Routing (EPAR), Efficient Power Aware QoS Routing (QEPAR) & Minimum Transmission Power Routing (MTPR), which focuses on increasing the network life time by making efficient use of battery power. QEPAR uses multicast routing algorithm to increase battery life time but it has a limitation that network traffic increases and also number of control packet increases.

To overcome the limitation, we propose multi–level routing algorithm, where the network is divide in to number of disjoint regions and then source node communicate with other node using algorithm.