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Energy Saving Multipath Routing Protocol for Wireless Sensor Networks Using Load Balancing Algorithm

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Abstract : In wireless sensor network, nodes are usually powered by batteries with limited amount of energy. This paper uses an Ad Hoc on Demand Multipath Routing Protocol for finding multiple paths to transfer the data from source node to destination node. The proposed work performed the energy efficient routing, when the sink node (base station) is in static state and all other neighbour nodes are in mobile state. Here gateway node acts as a relay for transmitting data from one group of node to another group. The performance of Ad hoc on Demand Multipath Routing Protocol is compared with Ad Hoc on Demand Distance Vector Routing Protocol. The simulation result shows that the proposed energy efficient routing algorithm consumes low energy and gives high throughput.