Abstract

In Mobile ad hoc network (MANET) all nodes are battery operated, as battery power or battery energy is limited resource therefore it requires special attention to minimize energy consumption in MANET. For MANETs, optimization of energy consumption has greater impact as it directly corresponds to lifetime of networks. The various factor related to energy consumption include transmission power, receiving power, overhearing of nodes, packet size, random topology, idle state of nodes. In the present work has done to minimize energy consumption by making cluster head in network and provide medium access control (MAC) layer control approach to minimize energy consumption at idle/overhearing state of node. An algorithm is
developed to achieve this goal which break ad hoc network into clusters and limit degree of node, uses energy efficient route to provide maximum throughput of network as compared to other protocols.

References

- Energy Issues and Energy aware Routing in Wireless Ad-hoc Networks, Marco Fotino and Floriano De Rango, University of Calabria, Italy.
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Index Terms

Computer Science
Wireless
Keywords
Manet  Energy Consumption  Idle State  Mac Layer  Cluster Head.