

As seen in the Fig 5.2, minimum cooperative routing consumes less energy as compare to greedy forwarding and cooperative geographic routing. This is because an optimal coalition size that minimizes the energy cost of each transmission where as in cooperative geographic routing the coalition size is pre-determined, only local information is available.

6. Conclusion

The paper begins with a brief introduction to wireless sensor networks. Then we discussed the properties and challenges in wireless sensor networks and also some of its applications. Later a brief idea about different types of routing protocol has been given.

Finally we done the comprehensive study of the cooperative geographic routing and minimum energy cooperative routing. We have seen the tradeoff between the multicast cost and cooperative transmission cost, and characterized the optimal coalition size that minimized the transmission cost. Minimum energy cooperative routing would achieve better energy saving.

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