Abstract

Extensive use of wireless sensor networks have started due to the wide variety of applications of them including military, health, space exploration, vehicular movement, environment monitoring, disaster management etc. Hence different protocols should be designed based on the QoS requirements of the application. Also sensor nodes have limited storage capacity, energy and computational requirements. Hence the designed protocols should make efficient use of the available resources. A survey and comparison of various routing protocols designed for terrestrial wireless sensor networks with static and mobile sinks and for underwater sensor networks has been done in the paper. The required areas of future research have also been discussed.

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**Index Terms**

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**Keywords**

Wireless sensor networks, Routing, Network lifetime, Node mobility, Data Aggregation, Node failure, Communication Overhead