Abstract

Nowadays Wireless sensor network is one of the fastest growing and emerging area in the scientific and engineering world. Its basic objective is to sense the crucial data and send it Base station so that it take corrective actions further. Sensor nodes interact with each other via various Routing protocols. This paper surveys various network structure and network operation based routing protocols, and explains the current developments of each protocol pursued. The three basic categories of routing techniques explored here are Data centric, hierarchical and location based protocol. Afterward, various QOS protocols are also surveyed with their recent research work. Further, in this paper, ongoing research and future directions in routing are discussed.

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**Index Terms**

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Keywords

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