Abstract

Wireless sensor networks (WSN) consist of tiny sensor nodes scattered on a relatively large geographical area. The nodes are cooperative in nature, that is, they can communicate with one another or to a central control unit. The work of each such node is to collect the information from surrounding like pressure, temperature, humidity, magnetic fields, optical fields etc [2]. Actually they are ad hoc network with some additional constraints. The node should be capable enough for power consumption, collection of data, self healing, mobility, self configuration to name a few. These features of WSN node differentiate it from conventional ad hoc networks [14]. This survey paper aims at reporting wireless sensor network, its design, networking of nodes, and security in system. In this paper, fundamentals of wireless sensor network are discussed. Different component like sensor, microcontroller, battery require for sensor networks are explained in detail. We have tried to include all the aspects of WSN. The Protocols, Operating Systems, tools require for WSN node programming and some security issues are also discussed.
References

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**Index Terms**

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**Keywords**