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Abstract

The popularity of wireless sensor networks (WSN) in the various applications related to weather monitoring, activity monitoring, fire monitoring, underwater application, snow & avalanche studies, etc. The WSN sensors are battery running devices, hence prone to the energy efficiency problems. There are several energy efficient solutions in existence which optimizes routing cost/metric calculation, load balancing approaches, data forwarding applications, etc. This paper proposes a survey on such energy efficient approaches for WSNs. The tree based routing, single path or multi path routing, optimized metric routing, etc have been evaluated under this performance evaluation survey. The tree based approaches are considered better approaches than other in terms of effectiveness. The tree based approaches offer the use maximum lifetime in the WSNs.

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Computer Science

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