Abstract

In the near future, wireless sensor networks are expected to find wide applicability and increasing deployment. In this paper, a formal classification of sensor networks based on their mode of functioning: such as proactive and reactive networks is proposed. Reactive networks respond immediately to the changes in the relevant parameters of interest, while proactive networks collect passive data in a periodic way. A new energy efficient routing protocol named TSEESNP (Threshold Sensitive Energy Efficient Sensor Network Protocol) for reactive networks is introduced in this paper. The performance is well evaluated using the TSEESNP routing protocol for a simple temperature sensing application. In terms of energy efficiency, this protocol has been observed to outperform existing conventional sensor network protocols.

References

Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking (MOBICOM), ACM.


Index Terms

Computer Science       Wireless

Keywords

Reactive, Directed Diffusion, Report Time, Time Frame, Hard Threshold, Soft Threshold etc.