Abstract

In Wireless Sensor Networks (WSNs), most studies define a common duty cycle value throughout the network to achieve synchronization among the nodes. On the other hand, a few studies propose adaptation of the duty cycle according to uniform traffic conditions to decrease the energy consumption and latency. In this paper, the lifetime of the node based on overall energy consumption are estimated and the effect of duty cycle on expected energy consumption is studied.
A Study on Effect of Duty Cycle in Energy Consumption for Wireless Sensor Networks


**Index Terms**

Computer Science Wireless Communications
Keywords


Low Power Listening

Node Density

Lifetime Prediction