Abstract

This paper describes the use of wireless sensor network for streetlight monitoring and control. As we look at existing systems the power consumption and maintenance cost of streetlight control department is high. This system would provide an optimal costing for streetlight maintenance and control. System employed use of network processing device (nodes) for sensing of light and then gathered information is used for controlling streetlight ON/OFF or streetlight intensity. Life of Street Lamps depends on the duration for which they get used. In this research, I will try to reduce the required duration for which lamp should be ON, focuses on increasing frequency band for network nodes to get maximum possible data rate and also discuss the parameters required to automatic detection and removal of nodes in the network. This paper also discusses the cost comparison between current system, sensor control system and this system with profile implementation.

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Index Terms

Computer Science  Wireless

Keywords

Jennic Wireless Microcontroller Jn – 5139  Network Processing Device  Streetlight
Supervisory Control