Abstract

This paper proposes an automation system where users can use voice commands to control their electrical appliances, such as light, fan, television, heater etc. The main aim is to help make the life of people more comfortable, especially for the elderly and disabled as they will not have to be actually present near an appliance to turn it on or off. The system focuses on using a Digital Signal Processor to process the voice commands and accordingly control the required appliance. XBee transceivers are used to eliminate the need for large amount of wiring between the processor and the appliances. Experimental results show that the system has a good response and is cost effective. We conclude that this system provides solutions for the problems faced by home owners in daily life and make their life easier and more comfortable by proposing a cost effective and reliable solution.
References

- Texas Instruments C5535 eZdsp USB Stick Development Kit datasheet

Index Terms

Computer Science

Automation
Keywords
Spoken command  XBee  Zero Crossing  Speech Recognition