Abstract

Home automation is a modern technology that allows you to modify your home to perform a different set of tasks automatically. Home automation is growing drastically due to increasing demands in a wide range of sectors. The proposed system deals with the technology called Sixth sense. Sixth Sense, also known as wear your world (WUW) is a wearable gestural interface, that enhances the physical world around us with digital information and allows us to use natural hand gestures to interact with that information. The aim behind this approach is to develop and engineer a system which is trained to recognize and percept gestures of a human arm using a smart glove. This smart glove can be embedded with flex sensors which sense the finger bends. With the help of these sensor inputs, the electronic appliances such as light bulbs, fans, etc can be controlled. The inputs would be taken from the sensors and processed using Arduino board. Other sensors like the LDR sensor and the DHT sensor would be used to check the intensity and temperature in the room respectively. This sensor data would be displayed on an Android application which would also consist of alternative UI components to control the
Gesture based Home Automation using Sixth Sense Technology

electronic devices (lights, fans, etc.). If the temperature or humidity changes drastically then an alarm would be triggered on our Android application. The methodology used in this approach is based on the fields of Sixth sense technology, Embedded Systems and Android.

References

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Index Terms

Computer Science Information Systems

Keywords

Sixth Sense, Home Automation, Arduino, Gestural Interface, Flex sensor, LDR sensor, DHT sensor.