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A Novel Method For Disabled People

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Abstract: In daily life to help handicapped and physically challenged people we need of Bioengineering control devices. In electroencephalogram brain activity is measured using mind wave. By the graphical representation of EEG signal we can get accuracy.In this paper data acquisition can be done by using biosensor.
Index terms:EEG, Mindwave, Biosensor, BSLEACS

I. INTRODUCTION

Based on EEG interconnection is represented as thoughts and emotional states. Electrical discharge have interaction between neurons. But it is impossible to measure outside the skull.

In this paper brain activity is measured by using the neurosky mindflex EEG headset it is known as brain computer interface. For visualization and procession of detecteing data acquisition and data processing application can be visualized. BSLEACS(Brain Computer Interface Based Smart Living Environment Auto Adjustment Control System) is detected and universal plug and play home networking for smart house application. Sign acquisition and Embedded signal processing are used for long term electroencephalogram. So Low power consumption is used for smart house application in daily life.

BSLEACS had verified in a room and adjustment can be controlled automatically. And it also extended and integrated with the UPnP home networking for another application. Drowsiness detection software is proposed because number of road accidents. Based on the physical activities we can identify drowsiness of driver and alarmed. Electroencephalogram can be used to detect the state of the device by using mindwave. The changes between conscious are mapped using as threshold values for alarm. Based on the amplitude and frequencies it may be result in different pattern of neural interaction alpha and beta waves are detected based on the waveform of EEG signals. The electrical activity produces these waves and thus all electrical devices create some level of ambient noise. Measuring mental activity through waves is loud concert EEG devices is measured by using environment.

II. IMPLEMENTATION

Non invasive BCI is used for scanning devices to be read brain signals. The brain signals from many points is used to identify a wider range of brain activity. The brain signals are used for transmission with the help of sensors.

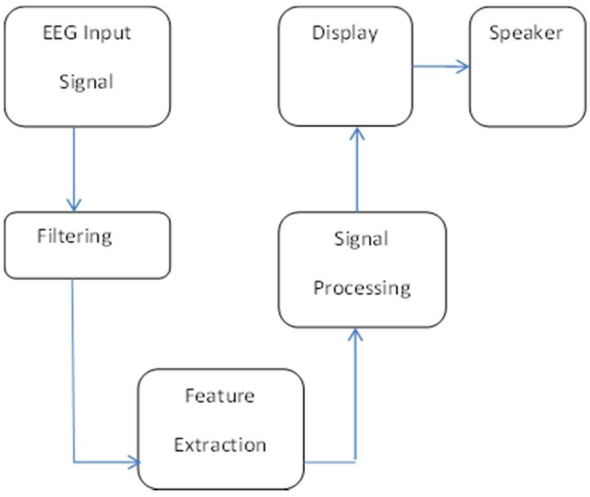

Fig 1.Block diagram

Based on laptop is used to read brain signals are transmitted to controlled unit. In this neurosky mindwave RF is used to transfer

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data. By using bluetooth this shows the state of the person

A. *Wireless Signal Acquisition*

The mindflex EEG headset is used to measure EEG signals electrodes placed on the scalp and detected brain signals is neurosky chip.

III. HARDWARE AND SOFTWARE

The neurosky mindflex EEG headset is cheapest biosensor. Neurosky biosensor isa wearable products for body and mind health. This solution can capture, quantify so that people can monitor and improve performance, then transfer the data between mindwave and the computer.

A. *Microsoft Visual Studio 2012*

The Microsoft visual studio is used to implement and support programs in OS. The brain computer interface can run on PC and divided into two data processing and data visualization parts. The output of visualization part displays the given signals by columns and time plot

IV. EXPECTED RESULT AND DISCUSSION

The Human brain works in terms of learning, memory and social interaction motivation. The module is developed to help elderly people and patients can't able to use their hands. Hardware system is programmed and database values with a particular task.

V. CONCLUSION

This paper deals with the design and implementation of BCI technique. The Mindflex EEG headset is measured by using data processing and data collection. The brain activity and the present state and nobility of development is unable to use their hands. To run it is coded in c#program. Data is transmitted using Zigbee standard.

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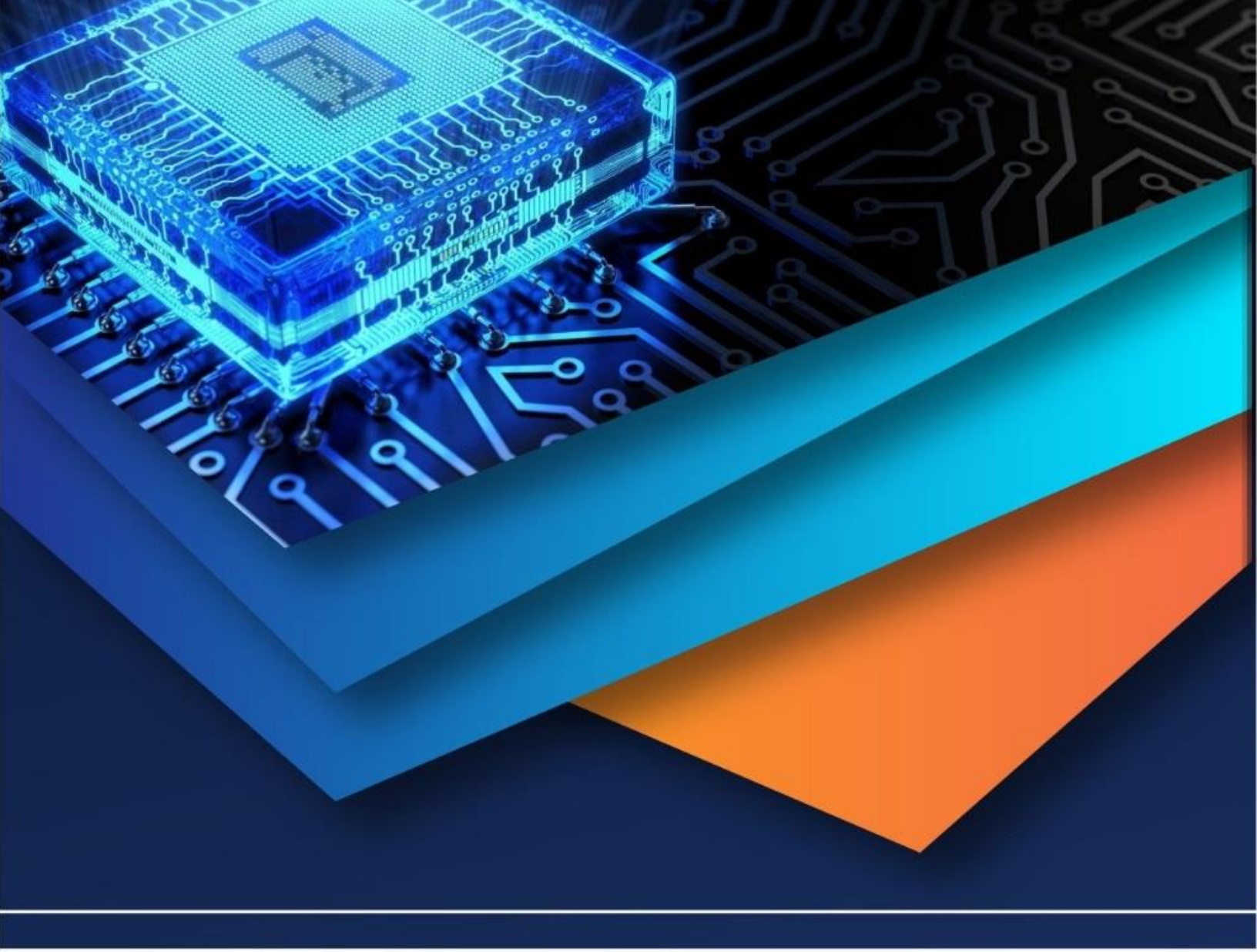

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