

Neuro-Sensors: Technology and Applications

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Received: March 31, 2022; **Published:** April 27, 2022

Neuro-sensing is important to be studied for better health care, particularly for the benefit of researchers working in the field of neurology and brain-computer interfacing. Brain mechanism with respect to sensory mechanisms needs to be studied and investigated. Neuro-sensors are designed and developed accordingly.

Sensing from brain and its parts is monitored and output parameters are characterized to understand the brain behavior. Output signals are then measured and analysed under different conditions. After properly standardizing the signal outputs, abnormality is to be indicated automatically for a particular abnormality.

Biological aspects of neuro-sensing are required to be understood as basic principles of the brain waves. Neuro-sensing, neuro-transmission and neuro-modulation are studied with their particular roles.

Different sensing systems and sensors for brain behavior are to be studied and analysed to design and develop these systems. Micro and Nano-electrodes and sensors are required to be designed and developed with efficient performance. EEG analysis with calibration aspects are given, along with physical, biological, magnetic and chemical sensors are developed for accurate signal analysis by having an appropriate software tools and algorithms.

Latest technology trends like IOT (Internet-of-Things), AI (Artificial Intelligence), U-Health (Ubiquitous Health Monitoring), Biotelemetry and Telehealth aspects are also required to be covered for better study of brain waves.

WSN (Wireless Sensor Networking) with biotelemetry is used for monitoring the health conditions of patents living in isolated remote areas.

Novel findings in the field.

Clinical applications of neuro-sensors are required to be covered with case studies for both diagnostic and therapeutic applications.

This research contribution would assist in better health care and for researchers in neurology.

Volume 5 Issue 5 May 2022

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