Abstract

Brain Computer Interface is a technology which helps us to interface human brain with the computer. The signal processing concepts play an important role in dealing with the raw brain signals. Recent trends in signal processing such as proximal splitting and Hilbert spacing method can be used to address some of the problems in the field of BCI. The field of Brain Computer Interface research and development has since focused primarily on neuroprosthetics applications that aim at restoring damaged sight, hearing and movement. The brain normally produces tiny electrical signals that come from the brain cells and nerves which communicate with each other. With the help of electroencephalograph (EEG) machine, these electrical signals can be detected and recorded. Electroencephalograph (EEG) is the recording of brain activity. It measures the voltage fluctuations due to ionic current flows within the neurons of the brain. In clinical terms, EEG refers to the recording of the brain’s electrical activity over a
short period of time, usually 30–40 minutes as recorded from multiple electrodes placed on scalp. Diagnostic applications mostly focus on the spectral content of EEG, the type of neural oscillations that can be observed in EEG signals.

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Index Terms

Computer Science

Signal Processing
**Keywords**

Electro-encephalograph (eeg)  Brain Computer Interface (bci)  Mnd (motor Neuron Disease).