Overview of Acquisition Techniques Brain Signals in Human Identification and Disease Diagnosis: Applications and Challenges

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Abstract

Electroencephalogram (EEG) signals refer to distinctive neurons’ electrical activity, depiction that upkeep biometric recognition. Usually in biometrics, the acquisition protocol has been important for EEG-based biometric system performance. Various acquisition protocols brain signals like evoked potentials besides relaxation, motor and non-motor imaginary have shown and discussed. This study discusses the potentials for identifying an individual based on EEG signals and highpoint the challenges of employing brain signals as a biometric modality in disease identification. Also, to discuss diverse solutions for limiting and decreasing their effects. Finally, an overview of EEG biometrics investigations has presented with findings and conclusions. Through this study it found that sensor like electrodes is help to disease diagnosis to detection disorder of the brain or increased power of the lower frequency bands and a decrease of high frequencies of patient’s brain

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