Abstract

This paper considers the modeling and simulation techniques of electroencephalography (EEG) signals. EEG signals of two different categories of subjects viz., alcoholic and normal patients are considered here. The signals are decomposed into several components using discrete wavelet transform technique to achieve different frequency bands of the brainwaves. After that different classification techniques, like, Principle Component Analysis (PCA) and Partial Least
Feature Extraction and Classification of EEG Spectra of Alcoholic Subjects

Square (PLS) to distinguish the alcoholic signals from the normal subjects. A comparative analysis is given and also further extensions are identified.

References

- https://archive.ics.uci.edu/ml/datasets/EEG+Database

Index Terms

Computer Science
Circuits And Systems

Keywords

Eeg Signals  Pca  Pls  Classification