Abstract

Epilepsy is a neurological disorder that can be assessed by electroencephalogram (EEG). EEG
signals, which are highly non-linear and non-stationary in nature, are very difficult to characterize and interpret. Wavelet transform is a very effective tool for analyzing non-stationary signals. A method of automatic detection of epileptic seizures from scalp EEG is discussed in this paper. EEG signals are undergone wavelet decomposition and features such as mean and variance are extracted. A linear classifier is used for classification and could achieve an accuracy of 97.19%.

References


Index Terms

Computer Science  Signal Processing

Keywords

Epileptic Seizure  Eeg  Wavelet Transform  Linear Classifier