Abstract

A person suffering from Epilepsy experiences or exhibits spontaneous seizures during which his behavior and perceptions are altered. Prediction of seizure onsets would help the affected and the bystanders to take prudent measures. Nonlinear features of Electro EncephaloGram (EEG) are used to isolate a class of background epileptic EEG, by training Support Vector Machine (SVM) classifier. Very good accuracy results have been seen in the results.
References

- The data from Bonn University is available at http: www. meb. uni-bonn.de/epileptologie/science/physik/eegdata.html.
- Pincus, S. M., 2000, "Approximate entropy as a measure of system
- David R. Brillinger, 1994; “Some basic aspects and uses of higher-order spectra”; Signal Processing, vol. 36, 3, pp. 239-249.

**Index Terms**

Computer Science

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**Keywords**

Electro Encephalogram (eeg)  Support Vector Machine (svm)  Wavelets  Non Linear Features