Abstract

Support Vector Machine (SVM) is one of the popular Machine Learning techniques for classifying the Electroencephalography (EEG) signals based on the neuronal activity of the brain. EEG signals are represented into high dimensional feature space for analyzing the brain activity. Kernel functions are helpful for efficient implementation of non linear mapping. This paper gives an overview of classification techniques available in Support Vector Machine. This paper also focus role of SVM on EEG signal analysis.

References

Support Vector Machine Technique for EEG Signals

- Olga Sourina and Yisi Liu, "A Fractal based algorithm of emotion recognition from EEG signals using arousal and valence model".

Index Terms

Computer Science  Information Systems

Keywords

Support Vector Machine  Electroencephalography  classifier  Signal processing