Abstract

In this paper, we solely focus on the EEG dataset. Using SVM classifier with external library LibSVM (3.23), we have classified our EEG SEED dataset and have achieved tremendous improvement in the accuracy and performance. Moreover, we have listed and explained the different approaches followed to improvise the performance and accuracy of our dataset. Further, we have also compared various existing approaches performed on our dataset using various classifiers - ELM, SVM with KNN, SVM with SEED dataset and SVM with DEAP dataset. By using library LibSVM (3.23), we increased the performance of each run by 4% finally resulting with 79.38% accuracy having tensor flow environment.

References

stimulated EEG. Springer, 3-11.

Index Terms

Computer Science  
Signal Processing

Keywords
SVM, SEED Dataset, KNN, ELM, emotions