Abstract

Identifying artifacts in EEG data produced by the neurons in brain is an important task in EEG signal processing research. These artifacts are corrected before further analyzing. In this work, fast fixed point algorithm for Independent Component Analysis (ICA) is used for removing artifacts in EEG signals and principal component analysis (PCA) tool is used for reducing high dimensional data and spatial redundancy. Support vector machine (SVM) tool is used for pattern recognition of EEG signals and the extracted parameters are used to impart cognitive interpretation ability towards autonomous system design.

References

- G. Molina, "Joint Time-Frequency-Space Classification of EEG in

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Index Terms

Computer Science
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Keywords

EEG signals  Fast ICA  PCA  SVM and Hardware Architecture