CNN

Parameter selection

CNN:

* average data by time

SVM:

* average data by time and frequency bin,
* apply PCA to extract principal components
* classification results,
* features visualization,
* scientific interpretation

Model refinement and evaluation

Classification results

SVM

Artifacts Removal:

* trim first 10 msec in time domain,
* trim frequencies from 0 to 13Hz in frequency domain.
* STFT (500msec window),
* 0.1 to 85Hz band pass filtering;
* 50Hz notch filtering,
* arranging by labels

Input

(raw EEG data)