Data sets 1 *‹motor imagery, uncued classifier application›*

Group information:

Intelligent Information Processing Lab
School of Electronic and Information Engineering
South China University of Technology (SCUT)
Guangzhou, 510640, P. R. China
Supervisor: Shengli Xie (E-Mail: adshlxie@scut.edu.cn)
Team Members: Jun Lv (E-Mail: rylj@163.com), Meichun Liu, Kun Cai

Description of our analysis method

Processing Flow:

Step 1: Use common spatial pattern algorithm (CSP) to extract ERD/ERS features.

Step 2: Wrap CSP and LDA to choose the optimal frequency bands and the subsets of the spatial patterns through cross validation.

Step 3: Employ sliding windows to cut EEG data into trials and compute their LDA feature values. The prediction label of a time segment is decided by the LDA feature values of the sliding windows which contain the time segment.

Step 4: Use fuzzy function to get the label probabilities of all the time segments, e.g. predict the EEG data continuously.

Artifical data sets

Subject_c and Subject_d