Implementation.

extract_features.py

```
~/Code/academic/mtp/reegmo master*
datacon > python extract_features.py --help
usage: extract_features.py [-h] [-e] [-m] [-b] [-s] [-a] [--all] [-w WINSIZE]
Extract features from EEG sessions
optional arguments:
                        show this help message and exit
  -h, --help
                        Only extract each session into pickle
  -e, --extract-only
                        Only merge all sessions into a single pickle
  -m, --merge-only
  -b, --baseline
                        Subtract mean value of the respective channel from each channel
                        Standardize each channel
  -s, --standardize
                        Average out all channels
  -a, --average
                        Extract all possible combinations
  --all
  -w WINSIZE, --winsize WINSIZE
                        Window Size in seconds
```

Implementation. classify.py

```
~/Code/academic/mtp/reegmo master* 6s
datacon > python classify.py --help
usage: classify.py [-h] [-b] [-s] [-a] [-d {random,subjectid} [{random,subjectid} ...]]
                   [-m {random_forest,xgboost} [{random_forest,xgboost} ...]]
                   [-r RANDOM_STATE] [-tr TEST_SIZE] [-ts TEST_SUBJECT_SIZE]
                   [-c {2,3,-1}] [--all]
Supervised classification of EEG features
optional arguments:
                        show this help message and exit
  -h, --help
  -b, --baseline
                        Subtract mean value of the respective channel from each channel
                        -- Use this feature
  -s, --standardize
                        Standardize each channel -- Use this feature
                        Average out all channels -- Use this feature
  -a, --average
  -d {random, subjectid} [{random, subjectid} ...], --divtype {random, subjectid} [{random, subjectid} ...]
                        How to split the data into train and test sets
  -m {random_forest,xgboost} [{random_forest,xgboost} ...], --model {random_forest,xgboost} [{random_forest,xgboost} ...]
                        Model(s) to use for classification
  -r RANDOM_STATE, --random-state RANDOM_STATE
                        Random State for Shuffle
  -tr TEST_SIZE, --test-size TEST_SIZE
                        Test size in fraction (of total data points)
  -ts TEST_SUBJECT_SIZE, --test-subject-size TEST_SUBJECT_SIZE
                        Test size in fraction (of number of subjects)
  -c {2,3,-1}, --num-classes {2,3,-1}
                        Number of classes into which y will be divided
                        Use features from all possible combinations
  --all
```