Preprocessing logbook:

Participant 1:

Preprocessed;

Participant 11:

many movements. I rejected ones that looked very messy in rejecting trials.

For movements: they show up as many many components – should eliminate them in rejecting trials.

Preprocessed;

Codes for deleting first 15 trials were included; codes for removing extra trials were added – hence they need to be re-pre-processed.

Part1:

Clean data

Done manual rejection;

Preprocessed.

Part2:

Done epoching, not manual rejection yet.

Done manual rejection;

Done ICA;

For block 11, error:

Index in position 1 exceeds array bounds (must not exceed 30).

Error in VisEd (line 39)

tmpdata=data(chans,:,:);

Error in pp\_rejectcomp (line 73)

EEG = VisEd(EEG,2,['[' num2str(param.sortorder) ']'],{});

Error in saloglo\_crps\_preprocessingpipeline (line 154)

pp\_rejectcomp(prepdata, char(allfiles(fileidx)));

39 tmpdata=data(chans,:,:);

All components rejected except for block 11;

All components rejected. In block 11, many bad channels as components.

Preprocessed.

For some reason this participant did not have trialcodes in the preprocessed data, so I preprocessed it again. I think it’s because of automatic rejection, but many trials were rejected.

Part3:

Many movements in block 3;

Done manual rejection;

Done ICA;

Error for block 15:

Index in position 1 exceeds array bounds (must not exceed 31).

Error in VisEd (line 39)

tmpdata=data(chans,:,:);

Error in pp\_rejectcomp (line 76)

EEG = VisEd(EEG,2,['[' num2str(param.sortorder) ']'],{});

Error in saloglo\_crps\_preprocessingpipeline (line 154)

pp\_rejectcomp(prepdata, char(allfiles(fileidx)));

39 tmpdata=data(chans,:,:);

Components rejected except for above;

All components rejected.

Preprocessed.

Part4:

Java memory error occurs – it seems like Matlab cannot handle part4.

This disappeared after I pasted the data again from the USB stick and re-started my computer.

I changed the preprocessing pipeline so that the channels will be deleted after manual selection, before automatic channel selection takes place – the above are the same for participant 17 too.

There are lots of big-sweat like activities.

Bad trials/channels rejected.

Preprocessed.

Part5:

Very clean data

Done manual rejection

Done ICA;

Block 2 error:

Index in position 1 exceeds array bounds (must not exceed 31).

Error in VisEd (line 39)

tmpdata=data(chans,:,:);

Error in pp\_rejectcomp (line 76)

EEG = VisEd(EEG,2,['[' num2str(param.sortorder) ']'],{});

Error in saloglo\_crps\_preprocessingpipeline (line 154)

pp\_rejectcomp(prepdata, char(allfiles(fileidx)));

39 tmpdata=data(chans,:,:);

Components rejected except for above;

For block 2: ran it again, and it did not occur, so components in block 2 rejected too.

Preprocessed.

Part6:

Done epoching;

One channel went wrong in block 2 – but deleted the trials first, so many trials were deleted☹

Done manual rejection.

Done ICA;

Many trials in block 11 rejected for not much reason;

Preprocessed.

Part7:

The file part07\_20200205\_014004 is corrupt – there is no event file inside. This is the same with the file on the USB stick. This did not seem to influence anything until epoching.

One+ channel went wrong in block 2 only for brief periods of time; same for block 3 – many trials are rejected. I decide that I will reject channels first.

I realised that actually bad channels and bad trials are only marked in a sequence, before either is rejected. I feel slightly stupid.

I changed the pipeline to first delete the channels before trials.

Bad channels/trials rejected.

Preprocessed.

Part8:

Done epoching;

Done manual rejection;

Done ICA;

Components rejected;

Preprocessed.

Part9:

Done epoching;

Clean data.

Many trials rejected because of bad channels – especially in the last several blocks.

Bad trials/channels rejected.

ICA done.

But noisy components

Components rejected

Preprocessed.

Part10:

Done epoching;

Clean data.

Bad trials/channels rejected.

ICA done.

Preprocessed.

Part11:

Done epoching;

Participant had quite a few movements;

Bad trials/channels rejected.

ICA done.

Preprocessed.

Part12:

Done epoching;

Bad trials/channels rejected.

Done ICA

Components rejected.

Preprocessed.

For some reason many channels in many trials are interpolated.

Part13:

Done epoching;

Bad trials/channels rejected.

Done ICA

Components rejected.

For some reason many channels in many trials are interpolated.

Preprocessed.

Part14:

Part14 used 13’s stimuli – changed the pipeline in epoching to make this make sense.

Epoched;

Clean data;

Bad trials/channels rejected.

Done ICA

Few bad components rejected.

Preprocessed.

Part15:

Epoched.

Movements, otherwise clean data;

Bad trials/channels rejected.

Done ICA

Components rejected. Rejected quite a few.

Preprocessed.

Part16:

Epoched.

Bad trials/channels rejected.

Very clean data.

Components rejected.

Preprocessed.

Part17:

Java memory error.

Preprocessed.

Part18:

Epoched.

Bad channels/trials deleted.

Done ICA

Preprocessed.

Part19:

Epoched.

Bad channels/trials deleted.

Done ICA

Preprocessed.

Part20:

Epoched.

In deleting bad channels/trials, there were many trials where the whole data shifted. Let’s see if ICA can pick it up. ICA picked it up. But I had to reject many bad channels as components after ICA.

Many trials deleted because of bad channels in block 7

Bad channels/trials deleted.

Ran ICA for the rest

Preprocessed

Part21:

Part21 used stimuli from part1. This will run into problems when assigning trialcodes.

I changed the codes and epoching worked.

Many channels in the last 2 blocks automatically rejected

Bad channels/trials rejected.

Preprocessed.