

```

function mrp

pos = [1,2,4,3];
ch = 1:28;
tlim = [-2000 2000];
h1 = figure
h2 = figure
colo(1) = 'b';
colo(2) = 'r';
colo(3) = 'g';
colo(4) = 'k';
[file1,loc1] = uigetfile('*.eeg','Pick the first EEG file');

cd(loc1)
files = dir('*.eeg');
for f = 1:length(files)
    EEG = pop_loadeeg(files(f).name);
    data1 = EEG.data(:, :, :);
    clear EEG
    for i = 1:size(data1,1)
        for j = 1:size(data1,3)
            data1(i,:,j) = squeeze(data1(i,:,j)) - squeeze(mean(data1(i,:,j)));
        end
    end
    m1 = mean(data1,3);
    clear data1;
    clear pos ch
    pos = [7,9,1,3,5,11,13,15,21,23,25,17,19];
    ch = [1,2,6,7,8,12,13,14,18,19,20,24,25];
    figure(h1)
    for i = 1:length(ch);
        subplot(5,5,pos(i))
        plot((-2000:0.5:2000)/2000,smooth(m1(i,:)- mean(m1(i,:)),50),colo(f));
        title(num2str(ch(i)));
        hold on
    end

    clear pos ch
    pos = [7,9,11,2,4,6,14,16,18,26,28,30,19,21,23];
    ch = [3,4,5,9,10,11,15,16,17,21,22,23,26,27,28];
    figure(h2);
    for i = 1:length(ch);
        subplot(5,6,pos(i))
        plot((-2000:0.5:2000)/2000,smooth(m1(i,:)- mean(m1(i,:)),50),colo(f));
        title(num2str(ch(i)));
        hold on
    end
end
saveas(h1,strcat(strrep(file1, '.', '-'), '-Contra'), 'fig')
saveas(h1,strcat(strrep(file1, '.', '-'), '-Contra'), 'emf')

saveas(h2,strcat(strrep(file1, '.', '-'), '-Ipsi'), 'fig')
saveas(h2,strcat(strrep(file1, '.', '-'), '-Ipsi'), 'emf')

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