

Appendix 1. Programming error in the code provided by Dr. Nyström.

The error is in the function that detects and removes noise (detectAndRemoveNoise.m).

The code for lines 42—48 is below:

```
temp_idx = find(ETparams.nanIdx(i,j).Idx);  
if temp_idx/length(V) > 0.20  
    disp('Warning: This trial contains > 20 % noise+blinks samples')  
    ETparams.data(i,j).NoiseTrial = 0;  
else  
    ETparams.data(i,j).NoiseTrial = 1;  
end
```

The goal of this code is to determine what proportion of all samples (length(V)) are artifact samples. If more than 20% of all samples are artifact, the whole trial is classified as a Noise trial.

The corrected code, indicated by the bold, italicized and underline portion, is below:

```
temp_idx = find(ETparams.nanIdx(i,j).Idx);  
if length(temp_idx)/length(V) > 0.20  
    disp('Warning: This trial contains > 20 % noise+blinks samples')  
    ETparams.data(i,j).NoiseTrial = 0;  
else  
    ETparams.data(i,j).NoiseTrial = 1;  
end
```