

Visual P300 paradigm

These data contains 10 subjects performing a visual P300 task for spelling. Results were published in 2009 [1]. Information about data acquisition could be found there. All five subjects presented here performed the row/column paradigm, that is one full row or column flashed at once. For the full paradigm description of the row/column paradigm one may refer to [1]. [First 2 must have Single Character paradigm Or they are messed up](#)

Data are saved in matlab *.mat format. For each subject a structure is saved containing two runs: one for training a classifier and another one for testing the classifier. To load e.g. data containing the training of subject s1 please type:

```
load('s1.mat')
```

To access the run containing training data one may use:

```
s1.train
```

and

```
s1.test
```

Triggering information

Channel number 10 contains the flash ID, that is the number of row or columns actually flashing. The columns are numbered from 1 to 6 starting with the very left row at 1. Then the rows are numbered from 7 to 12 starting with the very up row at 7. Hence, IDs between 1 and 12 are used.

Channel number 11 contains the target information. It is set to 1 if a target row or column flashes and 0 if a nontarget is flashing.

References

[1] C. Guger, S. Daban, E. Sellers, C. Holzner, G. Krausz, R. Carabalona, F. Gramatica, and G. Edlinger, "How many people are able to control a P300-based brain-computer interface (BCI)?," *Neurosci. Lett.*, vol. 462, pp. 94–98, 2009.