Package 'permutes'

May 1, 2017

Title Permutation	Tests for Time Series Data
Version 0.1	
ing densely-s tion tests to ic	ermutes package helps you determine the analysis window to use when analyzampled time-series data, such as EEG data. The package uses permutadentify the timepoints where significance of an effects bea, and plots the resulting p-values in a heatmap for your future perusal.
Depends ImPerm,	ggplot2, viridis
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LazyData true	
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R topics docu	imented:
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permu.plot	Create a heatmap of the results of permutation testing
Description	
Create a heatm	ap of the results of permutation testing
Usage	
permu.plot(d	ata)
Arguments	
data	Output of permu.test. You may want to subset it if you want to simulate zooming in.
Value	

A ggplot2 object containing a heatmap of p-values. You may want to add a 'scale_x_continuous(expand=c(0,0),breaks=(. to it to increase the granularity of the spacing to your satisfaction.

2 permu.test

permu.test Permutation tests for time series data.
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Description

Permutation tests for time series data.

Usage

```
permu.test(formula, data, parallel = FALSE)
```

Arguments

formula A formula of the following form: outcome ~ predictors | timepoint variables.

Multivariate outcomes (e.g. 32 EEG electrodes) are supported; use 'cbind(Fp1,Fp2,etc)

~ predictors | timepoint'.

data The dataset referencing these predictors.

parallel Whether to parallelize the permutation testing using plyr's 'parallel' option.

Needs some additional set-up; see the plyr documentation.

Value

A dataframe of p-values.

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