Package 'signFlip'

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Type Package

Title Permutation based one sample t test

Version 1.0

Date 2019-12-10

Author Angela Andreella

Maintainer Angela Andreella `<angela.andreella@phd.unipd.it>`

Description To finish

License GPL (>= 2)

Imports Rcpp (>= 1.0.3), matrixStats, stats

LinkingTo Rcpp, RcppArmadillo

RoxygenNote 7.1.0

NeedsCompilation yes

Archs i386, x64

R topics documented:

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signFlip-package   *Permutation based one sample t test*

Description

To finish

Details

The DESCRIPTION file:

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Index of help topics:

```
oneSample               Permutatation-based one sample t-test
rowVariance             Rows Variance
signFlip-package        Permutation based one sample t test
```

An overview of how to use the package, including the most important functions

Author(s)

Angela Andreella

Maintainer: Angela Andreella <angela.andreella@phd.unipd.it>

References

Literature or other references for background information

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oneSample	*Permutatation-based one sample t-test*

Description

Performs sign-flipping, i.e. permutation, one-sample t-tests

Usage

```
oneSample(X, B = 1000, alternative = "two.sided", seed = NULL)
```

Arguments

X	data where rows represents the variables and columns the observations
B	number of permutations to perform, default is 1000.
alternative	character referring to the alternative hypothesis, "two.sided", "greater" or "less". Default is "two.sided"
rand	logical. Should p values computed by permutation distribution?
seed	specify seed, default is 1234.

Value

Returns a list with the following objects: `Test` observed one sample t-test, `Test_H0` Test statistics under H0, `pv` observed p-values, `pv_H0` p-values under H0

Author(s)

Angela Andreella

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rowVariance	*Rows Variance*

Description

Performs the variance for each row in a matrix

Usage

```
rowVariance(X,na.rm = TRUE)
```

Arguments

X	data where rows represents the variables and columns the observations
na.rm	remove na?

Value

rows variance

Author(s)

Angela Andreella