

Package ‘signFlip’

June 11, 2020

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	<i>Permutation based one sample t test</i>
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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)

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References

Literature or other references for background information

oneSample	<i>Permutatation-based one sample t-test</i>
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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)

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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)

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