Package 'rapidsplit'

January 11, 2023

Type Package

Title Fast split half algorithm

Version 0.0.0.1

Date 2021-11-24

Author Sercan Kahveci

Maintainer Your Name <your@email.com>

Description Fast split-half reliability algorithm. Developed for use in one of my studies.

License GPL (>= 2)

Imports Rcpp (>= 1.0.5), AATtools

LinkingTo Rcpp

RoxygenNote 7.2.3.9000

R topics documented:

`rapidsplit-package` *A short title line describing what the package does*

Description

A more detailed description of what the package does. A length of about one to five lines is recommended.

Details

This section should provide a more detailed overview of how to use the package, including the most important functions.

Author(s)

Your Name, email optional.

Maintainer: Your Name <your@email.com>

References

This optional section can contain literature or other references for background information.

See Also

Optional links to other man pages

Examples

```
  ## Not run:
     ## Optional simple examples of the most important functions
     ## These can be in \dontrun{} and \donttest{} blocks.

## End(Not run)
```

`applyItersplits` *applyItersplits*

Description

generate splits for splithalf

Usage

```
applyItersplits(iters, splits, replace = FALSE)
```

Arguments

`iters`	number of iterations
`splits`	list of vectors of row numbers

`colMedians` *colMedians*

Description

get column medians

Usage

```
colMedians(mat)

colMedians_mask(values, mask)

colMeans_mask(values, mask)
```

Arguments

mat	the matrix to retrieve column medians from
mask	a logical matrix determining which data points to include and which not to

---

colSds *colSds*

Description

get column SDs

Usage

```
colSds(mat)

colSds_mask(mat, mask)
```

Arguments

mat	the matrix to retrieve column SDs from
mask	a logical matrix determining which data points to include and which not to

---

ExcludeSDOutliers *Exclude SD-based outliers*

Description

Update a mask matrix based on outlyingness

Usage

```
ExcludeSDOutliers(rtvec, mask, sdlim = 3)
```

Arguments

rtvec	Reaction time vector
mask	a logical matrix determining which data points to include and which not to
sdlim	Standard deviation limit to apply; values beyond are classified as outliers and masked

Value

An updated mask

rapidsplit *rapidsplit ultra fast split-half*

Usage

```
rapidsplit(
  ds,
  subjvar,
  pullvar,
  targetvar,
  rtvar,
  iters,
  agg = c("means", "medians"),
  standardize = F
)
```

Arguments

ds	dataset
subjvar	subject var name
pullvar	movement direction var name
targetvar	stim type var name
rtvar	rt varname
iters	n iterations
agg	means or medians
standardize	divide by sd or not

Examples

```
print("no example")
```

rcpp_hello_world *Simple function using Rcpp*

Description

Simple function using Rcpp

Usage

```
rcpp_hello_world()
```

Examples

```
## Not run:
rcpp_hello_world()

## End(Not run)
```

`stratified_itersplits` *stratified_itersplits*

Description

generate stratified splits for a single participant

Usage

```
stratified_itersplits(itercount, groupsizes)
```

Arguments

`itercount`	number of iterations
`groupsizes`	vector of number of RTs per group to stratify

Details

This first equally splits what can be equally split within groups. Then it randomly splits all the leftovers.

Value

A matrix with zeroes and ones

Index