Package 'rhoR'

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Title Rho for Inter Rater Reliability

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Description Rho is used to test the generalization of inter rater reliability (IRR) statistics. Calculating rho starts by generating a large number of simulated, fully-coded data sets: a sizable collection of hypothetical populations, all of which have a kappa value below a given threshold -- which indicates unacceptable agreement. Then kappa is calculated on a sample from each of those sets in the collection to see if it is equal to or higher than the kappa in then real sample. If less than five percent of the distribution of samples from the simulated data sets is greater than actual observed kappa, the null hypothesis is rejected and one can conclude that if the two raters had coded the rest of the data, we would have acceptable agreement (kappa above the threshold).

Depends R (>= 3.0.0)

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URL https://rhor.qe-libs.org

BugReports https://gitlab.com/epistemic-analytics/qe-packages/rhoR/-/issues

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Collate 'RcppExports.R' 'baserate.R' 'baserateCT.R' 'baserateSet.R' 'calcKappa.R' 'calcRho.R' 'calculations.R' 'checkBRPKcombo.R' 'codeSet.R' 'contingencyTable.R' 'contingencyToSet.R' 'createRandomSet.R' 'createSimulatedCodeSet.R' 'genPKcombo.R' 'genPcombo.R' 'generateKPs.R' 'getBootPvalue.R' 'getHandSet.R' 'getHandSet.R' 'getHandSetIndices.R' 'getR.R' 'getTestSet.R' 'kappa.R' 'kappaCT.R' 'kappaSet.R' 'prset.R' 'rho.R' 'rho.file.R' 'rhoCT.R' 'rhoK.R' 'rhoMin.R' 'rhoR.R' 'rhoSet.R' 'utils.R' 'zzz.R'

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as.code.set 3

as.code.set

Convert codeset to contingency table

Description

Convert codeset to contingency table

Usage

```
as.code.set(x)
```

Arguments

Χ

matrix contingency table (2x2)

Value

2-column matrix representation of the contingency table

```
{\tt as.contingency.table} \quad \textit{Convert a codeset to a contingency table}
```

Description

Convert a codeset to a contingency table

Usage

```
as.contingency.table(x)
```

Arguments

Х

codeset

Value

contingency table as a 2x2 matrix

4 baserate

baserate

Calculate Baserate

Description

This function calculates the baserate of the first rater, second rater, and the average of both the raters.

Usage

baserate(data)

Arguments

data

The testSet or contingencyTable for which the baserate is calculatede

Details

A baserate is the percentage, as a decimal, that a positive code appears in data (either a codeSet or contingencyTable) for a given rater. It is assumed that the first rater is more experienced and thus provides a better estimation of the actual baserate for a given code, so the first rater's baserate is often used as if it is the actual baserate. If the raters are assumed to have the same experience level, the average baserate may give a better estimation. If the second rater is more experienced, the second rater's baserate may give a better estimation. Functions assume that the first rater is the more experienced rater and thus uses the first rater's baserate as the overall baserate estimation.

Value

A list of the format:

firstBaserate The percentage of the data for which a positive code, or a 1, appears in the first rater **secondBaserate** The percentage of the data for which a positive code, or a 1, appears in the second rater

 ${\bf average Baserate} \ \ {\bf The} \ average \ of \ the \ first Baserate \ and \ second Baserate.$

See Also

baserateSet and baserateCT

Examples

```
#Given a code set
baserate(data = codeSet)

#Given a contingency Table
baserate(data = contingencyTable)
```

baserateCT 5

baserateCT

Calculate Baserate (CT)

Description

This function calculates the baserate of the first rater, second rater, and the average of both the raters. Called by baserate.

Usage

baserateCT(CT)

Arguments

CT

The contingencyTable for which the baserate is calculated

Value

A list of the format:

firstBaserate The percentage of the data for which a positive code, or a 1, appears in the first rater **secondBaserate** The percentage of the data for which a positive code, or a 1, appears in the second rater

averageBaserate The average of the firstBaserate and secondBaserate.

See Also

baserate and baserateSet

baserateSet

Calculate Baserate (Set)

Description

This function will calculate the baserate of the first rater, second rater, and the average of both the raters. Called by baserate.

Usage

baserateSet(set)

Arguments

set

The codeSet for which the baserate is calculated

6 codeSet

Value

A list of the format:

firstBaserate The percentage that a positive code, or a 1, appears in the first ratersecondBaserate The percentage that a positive code, or a 1, appears in the second rateraverageBaserate The average percentage that a positive code, or a 1, appears in either of the two raters

See Also

baserate and baserateCT

codeSet

codeSet

Description

A codeSet is a Nx2 binary matrix in which the first column corresponds to the first rater and the second column corresponds to the second rater.

Usage

codeSet

Format

The codeSet is an object of class matrix with n rows and two columns.

Examples

```
#An example codeSet firstRater = c(1,1,1,1,rep(0,36)) secondRater = c(1,1,1,0,1,1,rep(0,34)) exampleSet = c(1,1,1,0,1,1,rep(0,34)) exampleSet = c(1,1,1,0,1,1,rep(0,34)) #This set is included in the package under the variable name "codeSet".
```

contingencyTable 7

|--|--|

Description

A contingency Table is a 2x2 matrix that contains the counts of all combinations of positive and negative ratings made by two raters.

Usage

```
contingencyTable
```

Format

The contingency Table is an object of class matrix with two rows and two columns. The ordering of the combination vector input to the matrix is as follows: c(Rater1Positive & Rater2Positive, Rater1Negative & Rater2Positive, Rater1Negative & Rater2Negative).

Examples

Description

Create a contingency table using the provied precision, recall, baserate, and length.

Usage

```
contingency_table(precision, rec, length, baserate)
```

Arguments

```
precision double rec double length int baserate double
```

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createSimulatedCodeSet

Create Simulated codeSet

Description

Creates a simulated codeSet with the given parameters

Usage

```
createSimulatedCodeSet(
  length,
  baserate,
  kappaMin,
  kappaMax,
  precisionMin,
  precisionMax,
    ...,
  tries = 50
)
```

Arguments

length the length of the simulated codeSet to be created baserate the baserate of the simulated codeSet the minimum kappa of the simulated codeSet kappaMin the maximum kappa of the simulated codeSet kappaMax the minimum precision of the simulated codeSet precisionMin the maximum precision of the simulated codeSet precisionMax Parameters passed to createRandomSet (e.g. type = "set" or type = "ct") . . . tries the maximum number of tries to generate a valid set, smaller set lengths may require an increased number of tries

Details

codeSets are generated by first picking a random kappa within its range and a random precision within its range. If the random kappa, random precision, and baserate are not mathematically possible, then the precision is resampled from a range of mathematically possible values within its range. A unique simulated codeSet is then constructed given these parameters.

Value

A codeSet that fulfills the given parameters

generateKPs_c 9

generateKPs_c

generate_kp_list

Description

```
generate_kp_list
```

Usage

```
generate_kp_list(
  numNeeded,
  baserate,
  kappaMin,
  kappaMax,
  precisionMin,
  precisionMax,
  distributionType = 0L,
  distributionLength = 10000L
)
```

Arguments

```
numNeeded
                  int
baserate
                  double
kappaMin
                  double
kappaMax
                  double
                  double
precisionMin
precisionMax
                  double
{\tt distributionType}
                  int 0 - normal (default), 1 - bell
{\it distribution} Length
                  long
```

Value

matrix of kappa and precision values (column 1 as precision)

10 getHandCT

 ${\tt getBootPvalue_c} \qquad \qquad {\tt getBootPvalue_c}$

Description

returns the percentage of the time that the distribution was greater or equal to the observed kappa if the result is less than the mean of the distribution, than the p value is 1 else return the number of times that the distribution is greater than the result as a percentage of the total number of items in the distribution

Usage

```
getBootPvalue_c(distribution, result)
```

Arguments

distribution vector of calculated kappas

result double calculated kappa to compare against

Value

double calculated p-value

getHandCT Get Handset

Description

This function is to get a handset of a set and calculate the kappa

Usage

```
getHandCT(full.ct, handSetLength, handSetBaserate, as_kappa = TRUE)
```

Arguments

full.ct This is the set to take a handset of handSetLength This is the length of the handset to take

handSetBaserate

This is the minimum baserate to inflate the handset to

handSet

Value

The function returns the handSet if returnSet is TRUE or the kappa of the handSet if not

getHandSet 11

getHandSet Get Handset

Description

This function is to get a handset of a set and calculate the kappa

Usage

```
getHandSet(set, handSetLength, handSetBaserate, returnSet = FALSE)
```

Arguments

set This is the set to take a handset of handSetLength This is the length of the handset to take

handSetBaserate

This is the minimum baserate to inflate the handset to

returnSet If TRUE, then return the handSet if FALSE, return the kappa of the handSet

Value

The function returns the handSet if returnSet is TRUE or the kappa of the handSet if not

getHandSetIndices Generate a Handset

Description

Generate a vector representing indices of set, using the handSetBaserate to determine the minimum number of indices that are positive

Usage

```
getHandSetIndices(set, handSetLength = 20, handSetBaserate = 0.2)
```

Arguments

set matrix of two columns handSetLength number of indices to find

 $hand {\tt SetBaserate}$

number between 0 and 1 to use as a minimum number of positive indices

Value

vector of indices from set

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getHand_kappa

getHand_kappa

Description

This function returns kappa calculated from a Handset taken from a larger Contingency Table

Usage

```
getHand_kappa(ct, handSetLength, handSetBaserate)
```

Arguments

ct KPs matrix of kappa (column 1) and precision (column 2) values

handSetLength The length of the testSet (ignored unless *data* is an observed kappa value)

handSetBaserate

baserate to inflate the sampled contingency table to

Value

Kappa as double

getTestSet

Get Test Set

Description

This function gets a *testSet* from a larger codeSet given certain sampling parameters.

Usage

```
getTestSet(set, testSetLength, testSetBaserateInflation = 0)
```

Arguments

set The codeSet from which the *testSet* is taken

testSetLength The length of the *testSet* to be taken

testSetBaserateInflation

The minimum guaranteed baserate of the testSet. Default to 0

kappa 13

Details

A *testSet* is a codeSet that is a subset of a larger codeSet with a given set of properties. A *testSet* is constructed by sampling (without replacement) P rows from rows in the larger codeSet where the first rater's code was 1, and then appending an additional sample (without replacement) of R rows taken at random from the larger codeSet excluding rows included in the first P rows sampled. P is computed as the minbaserate * length of the *testset*. R is computed as testSetLength - P. The result of this sampling procedure is to create a sample with a minimum baserate regardless of the baserate of the larger codeSet.If *testSetBaserateInflation* is set to zero, the function selects rows at random.

Value

A codeSet with the properties specified

kappa

Calculate kappa

Description

This function calculates Cohen's kappa on a contingencyTable or a codeSet

Usage

kappa(data)

Arguments

data

A contingencyTable or a codeSet

Value

The kappa of the contingencyTable or codeSet

See Also

kappaSet and kappaCT

Examples

```
#Given a code set
kappa(data = codeSet)

#Given a contingency Table
kappa(data = contingencyTable)
```

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kappaCT

Calculate kappa (contingency Table)

Description

This function calculates Cohen's kappa on a contingencyTable. Called by kappa.

Usage

kappaCT(ct)

Arguments

ct

 $A \ {\tt contingencyTable}$

Value

The kappa of the contingencyTable

See Also

kappa and kappaSet

kappaSet

Calculate kappa (Set)

Description

This function calculates Cohen's kappa for a given codeSet. Called by kappa.

Usage

kappaSet(set)

Arguments

set

A codeSet

Value

The kappa of the codeSet

See Also

kappa and kappaCT

kappa_ct 15

kappa_ct

kappa_ct

Description

Calculate kappa from a contingency table

Usage

```
kappa_ct(ct)
```

Arguments

ct [TBD]

random_contingency_table

 $random_contingency_table$

Description

```
random_contingency_table
```

Usage

```
random_contingency_table(
  setLength,
  baserate,
  kappaMin,
  kappaMax,
  minPrecision = 0,
  maxPrecision = 1
)
```

Arguments

```
setLength [TBD]
baserate [TBD]
kappaMin [TBD]
kappaMax [TBD]
minPrecision [TBD]
maxPrecision [TBD]
```

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recall

recall

Description

recall

Usage

```
recall(kappa, BR, P)
```

Arguments

kappa double BR double P double

Value

Recall calculated from provided kappa, BR, and P

rho Rho

Description

This function calculates rho for a testSet, contingencyTable, or an observed kappa value with associated set parameters (testSetLength and OcSBaserate).

Usage

```
rho(
    x,
    OcsBaserate = NULL,
    testSetLength = NULL,
    testSetBaserateInflation = 0,
    OcsLength = 10000,
    replicates = 800,
    ScsKappaThreshold = 0.9,
    ScsKappaMin = 0.4,
    ScsPrecisionMin = 0.6,
    ScsPrecisionMax = 1,
    method = "standard"
)
```

rho 17

Arguments

x The observed kappa value, testSet or contingencyTable that will be tested

with rho

OcSBaserate The baserate of the observed codeSet (defaults to baserate of testSet or

contingencyTable)

testSetLength The length of the testSet (ignored unless *data* is an observed kappa value)

testSetBaserateInflation

The minimum baserate from the sampling procedure

OcsLength The length of the observed codeSet

replicates The number of simulated codeSets to use in the null hypothesis distribution for

rho; similar to replicates in a Monte Carlo study

ScSKappaThreshold

The maximum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSKappaMin The minimum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSPrecisionMin

The minimum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho

ScSPrecisionMax

The maximum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho,

method character vector choosing implementation "standard" (Default) or "c"

Details

Rho is a Monte Carlo rejective method of interrater reliability statistics, implemented here for Cohen's Kappa. Rho constructs a collection of data sets in which kappa is below a specified threshold, and computes the empirical distribution on kappa based on the specified sampling procedure. Rho returns the percent of the empirical distribution greater than or equal to an observed kappa. As a result, Rho quantifies the type 1 error in generalizing from an observed test set to a true value of agreement between two raters.

Rho starts with an observed kappa value, calculated on a subset of a codeSet, known as an observed testSet, and a *kappa threshold* which indicates what is considered significant agreement between raters.

It then generates a collection of fully-coded, simulated codeSets (ScS), further described in createSimulatedCodeSet, all of which have a kappa value below the kappa threshold and similar properties as the original codeSet.

Then, kappa is calculated on a testSet sampled from each of the ScSs in the collection to create a null hypothesis distribution. These testSets mirror the observed testSets in their size and sampling method. How these testSets are sampled is futher described in getTestSet.

The null hypothesis is that the observed testSet, was sampled from a data set, which, if both raters were to code in its entirety, would result in a level of agreement below the kappa threshold.

For example, using an alpha level of 0.05, if the observed kappa is greater than 95 percent of the kappas in the null hypothesis distribution, the null hypothesis is rejected. Then one can conclude that the two raters would have acceptable agreement had they coded the entire data set.

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Value

```
rho for the given parameters
rho and kappa for the given data and parameters (unless kappa is given)
```

See Also

rho

Examples

```
# Given an observed kappa value
rho(x = 0.88, OcSBaserate = 0.2, testSetLength = 80)
# Given a test Set
rho(x = codeSet)
# Given a contingency Table
rho(x = contingencyTable)
```

rho.file

Rho using a file

Description

This function calculates rho and kappa for a given testSet as defined by the file and columns (col1, col2), and returns a list containing both values. Called by rho.

Usage

```
rho.file(
    x,
    col1,
    col2,
    OcsBaserate = NULL,
    testSetBaserateInflation = 0,
    OcsLength = 10000,
    replicates = 800,
    ScsKappaThreshold = 0.9,
    ScsKappaMin = 0.4,
    ScsPrecisionMin = 0.6,
    ScsPrecisionMax = 1,
    method = "standard"
)
```

rho.file

Arguments

x The observed kappa value, testSet or contingencyTable that will be tested

with rho

col1 The first column from file

col2 The second column from file

OcsBaserate The baserate of the observed codeSet (defaults to baserate of testSet or

contingencyTable)

testSetBaserateInflation

The minimum baserate from the sampling procedure

OcsLength The length of the observed codeSet

replicates The number of simulated codeSets to use in the null hypothesis distribution for

rho; similar to replicates in a Monte Carlo study

ScSKappaThreshold

The maximum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSKappaMin The minimum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSPrecisionMin

The minimum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho

ScSPrecisionMax

The maximum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho,

method character vector choosing implementation "standard" (Default) or "c"

Value

rho for the given parameters

A list of the format:

rho The rho of the codeSet

kappa The Cohen's Kappa of the codeSet

See Also

rho

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rhoCT

Rho (contingency Table)

Description

This function calculates rho and kappa for a given contingencyTable, and returns a list containing both values. Called by rho.

Usage

```
rhoCT(
    x,
    OcSBaserate = NULL,
    testSetBaserateInflation = 0,
    OcSLength = 10000,
    replicates = 800,
    ScSKappaThreshold = 0.9,
    ScSKappaMin = 0.4,
    ScSPrecisionMin = 0.6,
    ScSPrecisionMax = 1,
    method = "standard"
)
```

Arguments

x The observed kappa value, testSet or contingencyTable that will be tested

with rho

OcsBaserate The baserate of the observed codeSet (defaults to baserate of testSet or

contingencyTable)

testSetBaserateInflation

The minimum baserate from the sampling procedure

OcsLength The length of the observed codeSet

replicates The number of simulated codeSets to use in the null hypothesis distribution for

rho; similar to replicates in a Monte Carlo study

ScSKappaThreshold

The maximum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSKappaMin The minimum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSPrecisionMin

The minimum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho

ScSPrecisionMax

The maximum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho,

method character vector choosing implementation "standard" (Default) or "c"

rhoK 21

Value

```
rho for the given parameters

A list of the format:

rho The rho of the contingencyTable

kappa The Cohen's Kappa of the contingencyTable
```

See Also

rho

rhoK

Rho (kappa)

Description

This function calculates rho for an observed kappa value with associated set parameters (test-SetLength and OcSBaserate). Called by rho. A p-value is returned and if this value is less than 0.05, it is said that the handset does generalize to the entire set

Usage

```
rhoK(
    x,
    OcSBaserate,
    testSetLength,
    testSetBaserateInflation = 0,
    OcSLength = 10000,
    replicates = 800,
    ScSKappaThreshold = 0.9,
    ScSKappaMin = 0.4,
    ScSPrecisionMin = 0.6,
    ScSPrecisionMax = 1,
    method = "standard"
)
```

Arguments

x The observed kappa value, testSet or contingencyTable that will be tested

with rho

contingencyTable)

 ${\tt testSetLength} \quad \text{The length of the } {\tt testSet} \ ({\tt ignored } \ {\tt unless} \ {\it data} \ {\tt is an } \ {\tt observed } \ {\tt kappa } \ {\tt value})$

testSetBaserateInflation

The minimum baserate from the sampling procedure

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OcsLength The length of the observed codeSet

replicates The number of simulated codeSets to use in the null hypothesis distribution for

rho; similar to replicates in a Monte Carlo study

ScSKappaThreshold

The maximum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSKappaMin The minimum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSPrecisionMin

The minimum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho

ScSPrecisionMax

The maximum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho,

method set to "c" to calculate using the C++ implementation. Defaults to "standard"

Value

rho for the given parameters rho for the given parameters

See Also

rho

Description

This function calculates the minimum testSetLength where it is possible to get a rho less than alpha for the given parameters of rho.

Usage

```
rhoMin(baserate, alpha = 0.05, inc = 10, printInc = FALSE, ...)
```

Arguments

baserate	A baserate
alpha	The threshold of significance for rho (similar to an alpha level for a p value), defaulted to 0.05
inc	An integer indicating by how much the testSetLength should increase each iteration
printInc	A boolean indicating whether to print out each increment value with it's corresponding significance for rho
	Any additional parameters passed into rho

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Value

The minimum length of testSet, to the nearest multiple of inc, greater than the minimum length, that would give a value where rho less than alpha becomes mathematically possible.

Examples

```
#Add testSetBaserateInflation as an additional parameter
rhoMin(0.2, testSetBaserateInflation = 0.33)

#Add testSetBaserateInflation as well as changing inc and selecting printInc
rhoMin(0.2, inc = 5, printInc = TRUE, testSetBaserateInflation = 0.33)
```

rhoR

rhoR: A package for computing rho

Description

Rho is used to test the generalization of inter rater reliability (IRR) statistics, in this case Cohen's Kappa.

Rho is a Monte Carlo rejective method of interrater reliability statistics, implemented here for Cohen's Kappa. Rho constructs a collection of data sets in which kappa is below a specified threshold, and computes the empirical distribution on kappa based on the specified sampling procedure. Rho returns the percent of the empirical distribution greater than or equal to an observed kappa. As a result, Rho quantifies the type 1 error in generalizing from an observed test set to a true value of agreement between two raters.

Rho starts with an observed kappa value, calculated on a subset of a codeSet, known as an observed testSet, and a *kappa threshold* which indicates what is considered significant agreement between raters.

It then generates a collection of fully-coded, simulated codeSets (ScS), further described in createSimulatedCodeSet, all of which have a kappa value below the kappa threshold and similar properties as the original codeSet.

Then, kappa is calculated on a testSet sampled from each of the ScSs in the collection to create a null hypothesis distribution. These testSets mirror the observed testSet in their size and sampling method. How these testSets are sampled is futher described in testSet.

The null hypothesis is that the observed testSet, was sampled from a data set, which, if both raters were to code in its entirety, would result in a level of agreement below the kappa threshold.

For example, using an alpha level of 0.05, if the observed kappa is greater than 95 percent of the kappas in the null hypothesis distribution, the null hypothesis is rejected. Then one can conclude that the two raters would have acceptable agreement had they coded the entire data set.

rho

Use rho rhoK rhoSet rhoCT

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kappa

```
Use kappa kappaSet kappaCT
```

rhoMin

Use rhoMin

rhoSet

Rho (set)

Description

This function calculates rho and kappa for a given testSet, and returns a list containing both values. Called by rho.

Usage

```
rhoSet(
    x,
    OcSBaserate = NULL,
    testSetBaserateInflation = 0,
    OcSLength = 10000,
    replicates = 800,
    ScSKappaThreshold = 0.9,
    ScSKappaMin = 0.4,
    ScSPrecisionMin = 0.6,
    ScSPrecisionMax = 1,
    method = "standard"
)
```

Arguments

The observed kappa value, testSet or contingencyTable that will be tested

with rho

OcsBaserate The baserate of the observed codeSet (defaults to baserate of testSet or

contingencyTable)

testSetBaserateInflation

The minimum baserate from the sampling procedure

OcsLength The length of the observed codeSet

replicates The number of simulated codeSets to use in the null hypothesis distribution for

rho; similar to replicates in a Monte Carlo study

ScSKappaThreshold

The maximum kappa value used to generate simulated codeSets in the null hypothesis distribution for rho

ScSKappaMin The minimum kappa value used to generate simulated codeSets in the null

hypothesis distribution for rho

ScSPrecisionMin

The minimum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho

ScSPrecisionMax

The maximum precision to be used for generation of simulated codeSets in the

null hypothesis distribution for rho,

method character vector choosing implementation "standard" (Default) or "c"

Value

rho for the given parameters

A list of the format:

rho The rho of the codeSet

kappa The Cohen's Kappa of the codeSet

See Also

rho

```
sample_contingency_table
```

sample_contingency_table

Description

```
sample_contingency_table
```

Usage

```
sample_contingency_table(xx, n, forR = TRUE)
```

Arguments

xx contingency table matrix

n int size of the contingency table

forR bool if true, add 1 to the results accounting for R indices starting at 1

\$.rating.set

\$.rating.set

Helper function to return special values on a rating set

Description

Helper function to return special values on a rating set

Usage

```
## S3 method for class 'rating.set' x$i
```

Arguments

- x Set or Contingency. Table
- i Value to search for

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