Package 'complexity'

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Type Package

Title Calculate the Proportion of Permutations in Line with an Informative Hypothesis

Version 1.1.2

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Description Allows for the easy computation of complexity: the proportion of the parameter space in line with the hypothesis by chance. The package comes with a Shiny application in which the calculations can be conducted as well.

License GPL (>= 2)

Depends combinat, shiny

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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Contents

`complexity` *Complexity*

Description

Calculates the complexity for the hypothesis of interest.

Usage

```
complexity(npar,...)
```

Arguments

npar	a value indicating the number of parameters
...	an unlimited amount of pairs of parameter indicators that represent constraints, where the first parameter indicator is constrained to be lower than the second parameter indicator.

Value

A print of the following:

`true permutations`
: a print of the permutations in line with the constraints

`total number of permutations`
: the total number of permutations

`number true`
: the number of true permutations

`complexity (proportion)`
: the complexity, that is: the proportion of true permutations

Examples

```
complexity(4,1,2,2,3,3,4)
```

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runShiny *function to launch Shiny application for complexity function*

Description

Launches a Shiny application for the complexity function.

Usage

```
runShiny()
```

Value

A print of the following:

`true permutations`
: a print of the permutations in line with the constraints

`total number of permutations`
: the total number of permutations

`number true`
: the number of true permutations

`complexity (proportion)`
: the complexity, that is: the proportion of true permutations

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