Package: SBI (via r-universe)

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Type Package

Title Simple Blinding Index for Randomized Controlled Trials

Version 0.1.1

Description Computes a simple blinding index for randomized controlled trials introduced in the paper ``A simple blinding index for randomized controlled trials" by Petroff, Bacak, Dagres, Dilk and Wachter, which has been submitted for publication.

License GPL-3

Encoding UTF-8

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

RoxygenNote 7.3.2

NeedsCompilation no

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Repository https://davidpetroff.r-universe.dev

RemoteUrl https://github.com/cran/SBI

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BlindingIndex

Description

This routine takes the entries from a 2x2 table as the arguments and returns the estimate for the difference of the probabilities p_A-p_B along with the Wilson-CI. It also finds a p-value dual to the Wilson method. For more details, see the paper "A simple blinding index for randomized controlled trials" by Petroff, Bacak, Dagres, Dilk and Wachter, which has been submitted for publication.

Usage

```
BlindingIndex(
  n_AA,
  n_BA,
  n_AB,
  n_BB,
  tolerance = 1e-12,
  switch_point = 1e-12,
  conf.level = 0.95
)
```

Arguments

n_AA	Number of patients in Group A guessing that they are in Group A. A non-negative number, usually an integer.
n_BA	Number of patients in Group A guessing that they are in Group B. A non-negative number, usually an integer.
n_AB	Number of patients in Group B guessing that they are in Group A. A non-negative number, usually an integer.
n_BB	Number of patients in Group B guessing that they are in Group B. A non- negative number, usually an integer. Alternatively, one can pass the first four arguments as a single $2x2$ table, that is,
	as.table(cbind(c(n_AA, n_BA), c(n_AB, n_BB))).
tolerance	Tolerance for the 'stats::uniroot' function.
switch_point	A technical detail. A (very small) positive number.
conf.level	confidence level.

Value

est	Estimate
lwr.ci	Lower end of CI
upr.ci	Upper end of CI
p.value	p-value dual to the Wilson CI method
Z	z-value corresponding to the p-value

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Examples

BlindingIndex(50, 50, 50, 50)

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