Package ‘CATT’

May 19, 2017

Type Package
Title The Cochran-Armitage Trend Test
Version 2.0
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Description This function conducts the Cochran-Armitage trend test to a 2 by k contingency table. It will report the test statistic (Z) and p-value. A linear trend in the frequencies will be calculated, because the weights (0,1,2) will be used by default.
License GPL-3
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LazyData TRUE
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R topics documented:

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CATT \hspace{1cm} \textit{The Cochran-Armitage Trend Test}

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Usage

CATT(binomial, ordinal, table)

Arguments

ordinal the vector of the ordinal variable
binomial the vector of the binomial variable
table option, the contingency table of table(binomial,ordinal)

Value

Z the test statistic
p.value the p value of the hypothesis test

Note

Please feel free to contact us, if you have any advice and find any bug!

Reference:


Update:
Version 0.2.0: The p value of two side was specified.

Author(s)

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Examples

# type of data is variable
binomial=c(rep(0,20),rep(1,10),rep(0,20),rep(1,20),rep(0,20),rep(1,30))
ordinal=c(rep(0,30),rep(1,40),rep(2,50))
CATT(binomial=binomial,ordinal=ordinal)

# type of data is table
tbl=matrix(c(20,10,20,20,20,30),nrow=2)
CATT(table=tbl)
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*Topic Cochran-Armitage; Trend Test
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