Package ‘UniExactFunTest’

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Type Package
Title Uniform Exact Functional Tests for Contingency Tables
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Description Testing whether two discrete variables have a functional
       relationship under null distributions where the two variables are
       statistically independent with fixed marginal counts.
       The fast enumeration algo-
       rithm was based on (Nguyen et al. 2020) <doi:10.24963/ijcai.2020/372>.
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R topics documented:

UEFT ......................................................... 2

Index 3
Description

Perform the uniform exact functional test on a contingency table to determine if the column variable is a function of the row variable.

Usage

UEFT(input, correct, log.p)

Arguments

input  A matrix of nonnegative integers representing a contingency table. Column is the casual and row is the effect.
correct Logical; if implement the continuity correction. The description is at details. The default is TRUE.
log.p Logical; if TRUE, the p-value is given as log(p). The default is FALSE.

Details

The uniform idea was implemented using uniform marginal distribution of a square table as null hypothesis. The continuity correction algorithm

Value

The exact p-value of the test.

Author(s)

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Index

UEFT, 2