Package 'IMPACT'

October 12, 2022

IMPACT	The Impact of Items	
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R topics docur		
	17-07-21 10:01:55 UTC	
Repository CRAN		
RoxygenNote 6.0.1		
NeedsCompilation n	10	
Encoding UTF-8	•	
URL http://www.u	v.mx/personal/nehuerta/impact	
License GPL (>= 2)		
naire validation	ent a multivariate analysis of the impact of items to identify a bias in the q of Likert-type scale variables. The items requires considering a null value tendency). Offering frequency, importance and impact of the items.	
Depends $R(>= 3.0.0)$		
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Title The Impact of I	tems	
Date 2017-07-20		
Version 0.1.1		

Description

This function returns an estimation based on the patterns of items. Introduce a set of categorical data set classifed as numerical data.

IMPACT

Usage

```
IMPACT(x, y)
```

Arguments

x is a data sety is a null value

Details

This function returns a multivariate analysis of the impact of items to identify a bias in the questionnaire validation. It estimates the impact of items.

This funtion takes a set of values produced by the IMPACT. functions returns estimations for each item provided in the input x matrix.

Value

Null.value a null value

Less.impact values of the item with less impact

Greater.impact values of the item with greater impact

Summary.table a summary table with the impact of items

Author(s)

Nery Sofia Huerta-Pacheco

References

Juniper, E. F., Guyatt, G. H., Streiner, D. L., & King, D. R. (1997). Clinical impact versus factor analysis for quality of life questionnaire construction. Journal of ClinicalEpidemiology, 233-238.

Allen, F., & Locker, D. (2002). A Modified Short Version of the Oral Health Impact Profile for Assessing Health-Related Quality of Life in Edentulous Adults. The International Journal of Prosthodontics, 15(5), 446-450.

Lesaffre, E. (2009). Statistical and methodological aspects of oral health research. John Wiley & Sons. DOI: 10.1002/9780470744116

Vicente Galindo, E. D. (2011). Analisis del Impacto frente a Teoria de Respuesta al Item (Trabajo Fin de Master). Master Universitario en Analisis Avanzado de Datos Multivariantes, Statistics Department, University of Salamanca, Spain.

Examples

```
## Not run:
library(IMPACT)
##Reads a likert-type scale dataset
x<-matrix(c(2, 5, 5, 4, 4, 5, 4, 4, 5, 1, 3, 4, 4, 1, 5, 2, 2, 4, 3, 5,
5, 1, 1, 4, 5, 2, 2, 4, 4, 5, 2, 4, 2, 5, 3, 4, 3, 3, 5, 3,
3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 3, 4, 3, 5, 3, 4, 5, 4, 4, 4, 5,</pre>
```

IMPACT 3

```
4, 1, 2, 2, 3, 1, 1, 3, 2, 5, 3, 2, 1, 5, 2, 2, 4, 1, 5, 1, 2, 4, 4, 4, 3, 5, 5, 4, 2, 2, 4, 3, 5, 2, 4, 5, 4, 4, 1, 5, 4, 1, 2, 3, 3, 1, 2, 5, 4, 5, 4, 3, 1, 4, 1, 3, 4, 2, 4, 2, 4, 1, 2, 3, 4, 1, 1, 4, 4, 5, 3, 3, 1, 1, 1, 4, 4, 2, 4, 1, 5, 1, 3, 3, 4, 5, 3, 5, 4, 5, 4, 4, 2, 5, 2, 4, 4, 4, 4, 4, 4, 4, 4, 2, 3, 1, 3, 2, 3, 3, 1, 1, 2, 4, 1, 5, 2, 2, 3, 3, 4),20,10)
##Put names of variables
colnames(x)<-c(paste("A","-",1:10))
##Declare a null value
y<-3
IMPACT(x,y)
## End(Not run)
```

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