Package 'topsis'

February 20, 2015

Type Package
Title TOPSIS method for multiple-criteria decision making (MCDM)
Version 1.0
Date 2013-09-24
Author Mahmoud Mosalman Yazdi
Maintainer Mahmoud Mosalman Yazdi <m.mosalman@gmail.com></m.mosalman@gmail.com>
Description Evaluation of alternatives based on multiple criteria using TOPSIS method.
License GPL-2
NeedsCompilation no
Repository CRAN
Date/Publication 2013-09-30 20:15:19
R topics documented: topsis
topsis TOPSIS method for multiple-criteria decision making (MCDM)
Description The Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) is a multiple-criteria decision making (MCDM) method.
Citeria decision making (MCDM) mediod.

2 topsis

Arguments

decision A numeric matrix with m rows for m alternatives and n columns for n criterions.

weights A numeric vector with length equal to number of columns in decision matrix for

weights of criterions.

impacts A character vector of "+" and "-" signs for the way that each criterion influences

on the alternatives.

Value

A data frame including elements

alt.row Row number of alternatives in decision matrix.

score TOPSIS score of alternatives.

rank Rank of alternatives based on TOPSIS scores.

Author(s)

Mahmoud Mosalman Yazdi <m.mosalman@gmail.com>

References

Yoon, K.P.; Hwang, C. (1995). _Multiple Attribute Decision Making: An Introduction_. California: SAGE publications.

Examples

```
d <- matrix(rpois(12, 5), nrow = 4)
w <- c(1, 1, 2)
i <- c("+", "-", "+")
topsis(d, w, i)</pre>
```

Index

```
*Topic topsis
topsis, 1
topsis, 1
```