Package 'easyAHP'

November 18, 2017

Type Package

Title Analytic Hierarchy Process (AHP)

Version 0.1.1

Author Zhicheng Du, Yuantao Hao

Maintainer Zhicheng Du<dgdzc@hotmail.com>

Description
Given the scores from decision makers, the analytic hierarchy process can be conducted easily.

License GPL-3

Encoding UTF-8

LazyData true

NeedsCompilation no

Repository CRAN

Date/Publication 2017-11-18 12:59:04 UTC

R topics documented:

---

easyAHP   *Analytic Hierarchy Process (AHP)*

Description

Given the scores from decision makers, the analytic hierarchy process can be conducted easily.

Usage

```
easyAHP(data)
```

Arguments

data
: a data frame consisted of the scores from decision makers; each row represents each item; no more than 10 items is allowed; each column represents each decision maker; no more than 20 makers is allowed; each item would be graded 1-9 score by each meker

Value

Matrix
: decision matrix of each decidion maker and the consolidated

Weights
: item weights of each decidion maker and the consolidated

CI
: consistency index of each decidion maker and the consolidated; being used to calculate the next item (CR)

CR
: consistency ratio of each decidion maker and the consolidated; value<0.1 is acceptable, otherwise we should ask the makers to grade once more time

Note

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

Reference:

1. http://bpmsg.com/

Update:

Version 0.1.1: the explaination in the 'value' section is corrected; the value of 'CR' less than 0.1 is acceptable

More advanced performance is coming!

Author(s)

Zhicheng Du<dgdzc@hotmail.com>, Yuantao Hao<haoyt@mail.sysu.edu.cn>

Examples

```
data=data.frame(maker1=c(6,8,1,3),maker2=c(6,8,2,3))
row.names(data)=c("item1","item2","item3","item4")
easyAHP(data)
```

Index

easyAHP, 1