Package 'rmerec'

February 8, 2024

,

2 merec_weights

merec_weights	Method based on the Removal Effects of Criteria - MEREC Implementation of the MEthod based on the Removal Effects of Criteria - MEREC More information about the method at https://doi.org/10.3390/sym13040525 More information about the implementation at https://github.com/lucassp/rmerec Given a decision
	matrix, the function return the Merec weight's vector.

Description

Method based on the Removal Effects of Criteria - MEREC Implementation of the Method based on the Removal Effects of Criteria - MEREC More information about the method at https://doi.org/10.3390/sym13040525 More information about the implementation at https://github.com/lucassp/rmerec Given a decision matrix, the function return the Merec weight's vector.

Usage

```
merec_weights(data, alternatives, optimizations)
```

Arguments

data A numeric data matrix in the format of a DECISION MATRIX, columns are the

criteria, rows are the alternatives

alternatives A character vector with the identification of alternatives

optimizations A character vector with definition of minimization or maximization for each

criterion, expected 'min' or 'max' only

Value

A numeric vector with MEREC Weights (wj) and all matrix/vectors used to calculate it

Examples

```
alternatives <- c("A1", "A2", "A3", "A4", "A5")
optimizations <- c("max", "max", "min", "min")

data <- matrix(c(
    c(450, 10, 100, 220, 5),  # criterion 1 values
    c(8000, 9100, 8200, 9300, 8400), # criterion 2 values
    c(54, 2, 31, 1, 23),  # criterion 3 values
    c(145, 160, 153, 162, 158)  # criterion 4 values
), nrow=5, ncol=4)

result <- merec_weights(data, alternatives, optimizations)
```

Index

merec_weights, 2