# Package: topsis (via r-universe)

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Type Package
<b>Title</b> TOPSIS method for multiple-criteria decision making (MCDM) <b>Version</b> 1.0
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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-

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### Usage

```
topsis(decision = NULL, weights = NULL, impacts = NULL)
```

### **Arguments**

A numeric matrix with m rows for m alternatives and n columns for n criterions. decision weights A numeric vector with length equal to number of columns in decision matrix for weights of criterions. A character vector of "+" and "-" signs for the way that each criterion influences impacts

on the alternatives.

#### Value

A data frame including elements

Row number of alternatives in decision matrix.

TOPSIS score of alternatives. score

rank Rank of alternatives based on TOPSIS scores.

### Author(s)

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#### References

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

## **Examples**

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

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