

# Package ‘cocosoR’

May 8, 2026

**Title** CoCoSo - Combined Compromise Solution Method for MCDA

**Version** 0.1.0

**Description** Provides a set of functions to implement the Combined Compromise Solution (Co-CoSo) Method created by Yazdani, Zarate, Zavadskas and Turskis (2019) <[doi:10.1108/MD-05-2017-0458](https://doi.org/10.1108/MD-05-2017-0458)>. This method is based on an integrated simple additive weighting and compromise exponentially weighted product model.

**License** GPL (>= 3)

**Encoding** UTF-8

**Language** en-US

**RoxygenNote** 7.2.3

**Depends** R (>= 2.10)

**LazyData** true

**Suggests** knitr, rmarkdown, testthat (>= 3.0.0)

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**NeedsCompilation** no

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check\_input\_data\_cocoso

*Verify if the dataset to be submitted to cocoso function is correctly formatted.*

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### **Description**

Verify if the dataset to be submitted to cocoso function is correctly formatted.

### **Usage**

```
check_input_data_cocoso(md_data)
```

### **Arguments**

md\_data            Must be a data frame with information about Criteria, Alternatives and Optimal Value. See example\_cocoso.

### **Value**

True if the dataset is correctly formatted and False otherwise.

### **Examples**

```
data(example_cocoso)
check_input_data_cocoso(example_cocoso)
```

---

cocoso

*Implementation of CoCoSo Method*

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### **Description**

Implementation of CoCoSo Method

### **Usage**

```
cocoso(md_data, parameter_alpha = 0.5)
```

### **Arguments**

md\_data            Must be a data frame with information about Criteria, Alternatives and Optimal Value. See example\_cocoso.

parameter\_alpha    Parameter for third aggregation strategies.

**Value**

Final ranking of all alternatives from CoCoSo method. In addition, we compute and present all three aggregation strategies.

**Examples**

```
data(example_cocoso)
cocoso(example_cocoso)
```

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example_cocoso	<i>Data example of logistic provider selection problem.</i>
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**Description**

Information of decision-making matrix from a logistic provider selection problem including information about criteria, alternatives and weights.

**Usage**

```
example_cocoso
```

**Format**

A data frame with 10 rows and 6 columns.

**Source**

Extract in "A combined compromise solution (CoCoSo) method for multi-criteria decision-making problems", Yazdani, M., Zarate, P., Kazimieras Zavadskas, E., & Turskis, Z. (2019).

**Examples**

```
example_cocoso
```

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standard_cocoso	<i>Padronization of decision-making matrix by sum.</i>
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**Description**

Padronization of decision-making matrix by sum.

**Usage**

```
standard_cocoso(md_data)
```

**Arguments**

md\_data            Decision-making matrix.

**Value**

A Decision-making matrix normalize.

**Examples**

```
standard_cocoso(mtcars)
```

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