

Package: tosr (via r-universe)

September 13, 2024

Title Create the Tree of Science from WoS and Scopus

Version 0.1.4

Description The goal of 'tosr' is to create the Tree of Science from Web of Science (WoS) and Scopus data. It can read files from both sources at the same time. More information can be found in Valencia-Hernández (2020)
<<https://revistas.unal.edu.co/index.php/ingenv/article/view/77718>>.

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URL <https://github.com/coreofscience/tosr>,
<https://coreofscience.github.io/tosr/>

BugReports <https://github.com/coreofscience/tosr/issues>

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Imports bibliometrix, igraph, dplyr, rebus, magrittr, stringr, tidyr, stats, rlang, tibble

Depends R (>= 2.10)

Suggests rmarkdown, knitr, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

Repository <https://coreofscience.r-universe.dev>

RemoteUrl <https://github.com/coreofscience/tosr>

RemoteRef HEAD

RemoteSha ac4560593de1f5413e544f78e33ac6c40a460b2c

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my_tosr_load	<i>A list with data to create ToS</i>
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Description

A list of three dataset that contain:

1. Graph: this is a citation network build with the references
2. df: A tibble with the main information of our initial dataset with some more ids
3. nodes: A tibble with the complete information of each node from graph dataset (1).

Usage

```
my_tosr_load
```

Format

A list with two datasets from a search in Scopus and Web of Knowledge

tosR	<i>tosR process</i>
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Description

This function load de scopus and web of science files and generate the graph (relations between the cited references), the bibliometrix dataframe object, the tree of science for the subfields, the tree of science for all the cited references,

Usage

```
tosR(...)
```

Arguments

... Names of scopus and web of science files

Value

list with graph, data frame of citations, subfields and Tree of science

Author(s)

Sebastian Robledo

Examples

```
## Not run:
my_tosr <- tosr("co-citation_209.txt",
               "co-citation_380.bib")

## End(Not run)
```

tosr_load

Load Web of Science and Scopus files

Description

Loads files from Web of Science (txt) and from Scopus (bib) to create a citation graph

Usage

```
tosr_load(...)
```

Arguments

... Web of Science or Scopus files

Value

List with the following fields: 'df', 'g', 'original_df' and 'extensions'. 'df': bibliometrix dataframe. 'g': Graph from the cited references. 'nodes': dataframe with the nodes attributes of the graph, 'original_df': dataframe from the original data, and 'extensions': Type of files (.bib or .txt) loaded.

Author(s)

Sebastian Robledo

Examples

```
## Not run:
my_tosr_load <- tosr_load("co-citation_209.txt",
                        "co-citation_380.bib")

## End(Not run)
```

`tosSAP`*SAP algorithm for tree of science*

Description

Compute tree of science using SAP algorithm. see: <https://revistas.unal.edu.co/index.php/ingenv/article/view/77718/0>

Arguments

<code>graph</code>	A graph object with bibliometrix data obtained from function <code>tosr_load</code>
<code>df</code>	Bibliometrix data frame obtained from function <code>tosr_load</code>
<code>nodes</code>	Dataframe with nodes attributes obtained from function <code>tosr_load</code>

Value

Dataframe with tree of science

Author(s)

Sebastian Robledo

Examples

```
## Not run:  
my_tos <- tosSAP(my_tos_load$graph, my_tos_load$df, my_tos_load$nodes)  
  
## End(Not run)
```

Index

* datasets

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