Package: compenginets (via r-universe)

August 26, 2024

Version 0.1

Title Time series from <https://www.comp-engine.org/>

Description All time series from the comp-engine database are
included, along with some meta data.

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URL <https://pkg.robjhyndman.com/compenginets/>,

<https://github.com/robjhyndman/compenginets>

BugReports <https://github.com/robjhyndman/compenginets/issues>

Encoding UTF-8

LazyData true

ByteCompile true

RoxygenNote 7.3.1

Suggests knitr, rmarkdown, testthat

Imports httr, jsonlite

VignetteBuilder knitr

Repository https://robjhyndman.r-universe.dev

RemoteUrl https://github.com/robjhyndman/compenginets

RemoteRef HEAD

RemoteSha afb0739d7c82b9b034c0b89af136329d3674952f

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category_scraping   *Download category information*

Description

Download category information

Usage

```
category_scraping()
```

Author(s)

Yangzhuoran Yang

Examples

```
cate_path <- category_scraping()
```

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get_cets   *Extracting time series from the CompEngine database*

Description

Return a time series with a specified name or a list of time series in a specified category.

Usage

```
get_cets(key, category = TRUE, maxpage = 10)
```

Arguments

key	The name of the time series or the name of the category, depending on value of `category`
category	If `TRUE`, the `get_cets` will return time series whose category match the keyword or belong to some subcategory under the matched category. If `FALSE`, the function will return time series with the name of key.
maxpage	The maximum number of pages to extract. Due to the number of time series that can be returned, a maximum of 10 time series are returned per page. The default is 10 pages (100 time series). This argument is only valid when `category` is set to `TRUE`.

Value

A list consisting of the selected series with class ts.

NOTE: Due to the large variation in the properties of time series stored in the CompEngine database, the tsp attribute (the start time in time units, the end time and the frequency) is not tailor made for each time series. If needed, user can customize the tsp attribute based on the output attribute of samplingInformation.

Some of the attributes are listed as follow:

name	The name of the time series
description	the description of the time series
samplingInformation	
	Indicating the frequency and other sampling related information
tags	The tags in the database
category	The name of the category and the hierarchy of the current category. See also category_scraping.
sfi	"special feature identification" information
source	The source of the time series
tsp	Tsp Attribute of Time-Series-like Objects. See [tsp](tsp)

Author(s)

Yangzhuoran Yang

See Also

category_scraping

Examples

```
# Getting series within Finance category (including subcategory)
cets_finance <- get_cets("finance")
unique(mapply(attr, cets_finance, MoreArgs = list(which = "category.name")))
# Getting series by its name
W138_finance_m4 <- get_cets("M4_W138_Finance_1", category = FALSE)
```

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