

Package ‘ccaR’

March 5, 2022

Type Package

Title Calculates the Corrected Covered Area (CCA) Index

Version 0.1.0

Author Theodoros Diakonidis, Konstantinos Bougioukas

Maintainer Theodoros Diakonidis <diakonidis@auth.gr>

Description Calculates the corrected covered area CCA. The measure for assessing the overall degree of overlap in an OOSR.

License GPL-2

Encoding UTF-8

LazyData FALSE

Imports ggplot2,
readxl,
utils

RoxygenNote 7.1.1

Depends R (\geq 2.10)

VignetteBuilder knitr

Suggests markdown,knitr

R topics documented:

cca	1
dt	2
heat_cca	3

Index	4
--------------	----------

cca	<i>Calculates the Corrected Covered Area (CCA) Index</i>
-----	--

Description

This package calculates the Corrected Covered Area (CCA) index. The measure for assessing the overall degree of overlap in an OOSR. It is taking as input the citation matrix.

Usage

```
cca(cm)
```

Arguments

cm A dataframe for the citation matrix

Value

res

Examples

```
DATASET<-readxl::read_excel(system.file('extdata','cca.xlsx', package = 'ccaR'))

cca_table<-cca(DATASET)
```

dt	<i>The dataset from the publication</i>
----	---

Description

The dataset contaoineing the publications

Usage

```
data(dt)
```

Format

A data frame with 14 rows and 6 variables:

Chasan2014 The publication of Chasan2014

Gilinsky2015 The publication of Gilinsky2015

Guo2016 The publication of Guo2016

Middleton2014 The publication of Middleton2014

Morton2014 The publication of Morton2014

Peacock2014 The publication of Peacock2014

Source

<https://hsda.med.auth.gr/>

heat_cca	<i>Plots the cca heatmap</i>
----------	------------------------------

Description

This function plots the cca heatmap. It is taking as input the citation matrix and the size.

Usage

```
heat_cca(cm, size)
```

Arguments

cm	A dataframe for the citation matrix
size	The size of the ...

Value

heat_cca

Examples

```
DATASET<-readxl::read_excel(system.file('extdata','cca.xlsx', package = 'ccaR'))

heat_cca(DATASET, 3) +
  ggplot2::theme(
    plot.caption = ggplot2::element_text(size = 16, margin=ggplot2::margin(30,0,0,0)),
    legend.title = ggplot2::element_text(size = 16, face = "bold", vjust=4),
    legend.text = ggplot2::element_text(size = 16),
    legend.key.size = ggplot2::unit(1.0, "cm"),
    legend.title.align = 0.5,
    legend.text.align = 0.5,
    axis.text.x=ggplot2::element_text(size = 16),
    axis.text.y=ggplot2::element_text(size = 16),
    axis.title=ggplot2::element_blank(),
    axis.ticks=ggplot2::element_blank(),
    axis.line=ggplot2::element_blank(),
    panel.border=ggplot2::element_blank(),
    panel.grid.major.x=ggplot2::element_line(colour = "grey80", linetype = "dashed"))
```

Index

* **datasets**

dt, [2](#)

cca, [1](#)

dt, [2](#)

heat_cca, [3](#)