Package 'DescriptiveStats.OBeu'

November 8, 2016

Type Package

Title Descriptive Statistics OpenBudgets.eu

Version 1.1.5

Date 2016-09-18

Description Descriptive Statistics and other related analysis for OBeu datasets.

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URL https://github.com/okgreece/DescriptiveStats.OBeu

BugReports https://github.com/okgreece/DescriptiveStats.OBeu/issues

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LazyData TRUE

Imports grDevices,jsonlite, stats

RoxygenNote 5.0.1

R topics documented:

`ds.boxplot` *Boxplot*

Description

Boxplot

Usage

```
ds.boxplot( data, q = 1.5 )
```

Arguments

data	The input matrix or data frame
q	The dependent variables of the model

Details

boxplot

Author(s)

Kleanthis Koupidis

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ds.frequencies *frequencies*

Description

This functions calculates frequencies of factors/characters of the input dataset.

ds.glm is used to fit generalized linear models through glm from stats package and return some results in json format.

Usage

```
ds.frequencies(data,select=NULL)

ds.glm(x, dependent=NULL, independent=NULL, distr.family = "gaussian")
```

Arguments

data	A matrix or data frame which includes at least one factor/character.
select	...
x	The input matrix or data frame
dependent	The dependent variables of the model
independent	The independent variables of the model
distr.family	A character string naming a the error distribution and link function to be used in the model(See family for details of family functions.)

Details

This function returns a list with the frequencies of factors/characters of the input dataset.

This function returns a list with the frequencies of factors/characters of the input dataset.

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`ds.statistics` *Calculation of the Statistic Measures*

Description

This functions calculates the basic descriptive measures of the input dataset.

Usage

```
ds.statistics(data)
```

Arguments

`data`	A numeric vector, matrix or data frame

Details

This function returns the min, max, range, mean, median, 0%,25%,50%,75%,100% quantiles variance, standartdeviation, skewness and kurtosis of the input data.

Value

A json file with the following components:

- Min: The minimum observed value of the input data
- Max: The maximum observed value of the input data
- Range: The range, defined as the difference of the maximum and the minimum value.
- Mean: The average value of the input data
- Median: The median value of the input data
- Quantiles: The 0%,25%,50%,75%,100% percentiles
- Variance: The variance of the input data
- StandartDeviation: The standard deviation of the input data
- Skewness: The Skewness of the input data
- Kurtosis: The Kurtosis of the input data

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