Package 'MapeBay'

November 15, 2021

Type Package

Title Multivariate Analysis of Variance Panel, PERMANOVA and Bayesian

Version 0.1.0

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Description

It covers approaches to multivariate analysis of variance, PERMANOVA and a Bayesian analysis, presenting an assumption test section together with a decision diagram that will allow selecting the appropriate technique for the analysis. The presentation of results is through an interactive panel, in which you can view automatic conclusions based on the tests, dynamic graphics through 'Highchart', also the package uses 'Stan' for Bayesian analysis.

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Encoding UTF-8

Biarch true

Depends R (>= 3.4.0)

Imports methods, DT, MANOVA.RM, shiny, shinydashboardPlus, shinydashboard, MultBiplotR, broom, car, dplyr, highcharter, htmltools, nortest, purrr, reshape, shinycssloaders, stringr, tibble, MVN, heplots, mvnormtest, vegan, waiter, moments, Rcpp (>= 0.12.0), RcppParallel (>= 5.0.1), rstan (>= 2.18.1), rstantools (>= 2.1.1)

LinkingTo BH (>= 1.66.0), Rcpp (>= 0.12.0), RcppEigen (>= 0.3.3.3.0), RcppParallel (>= 5.0.1), rstan (>= 2.18.1), StanHeaders (>= 2.18.0)

SystemRequirements GNU make

RoxygenNote 7.1.1

NeedsCompilation yes

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Repository CRAN

Date/Publication 2021-11-15 09:00:09 UTC

R topics documented:

MapeBay-package   *The 'MapeBay' package.*

Description

Package developed for the visualization and presentation of one-way multivariate analysis of variance models, with a classical, non-parametric and Bayesian approach.

References

Stan Development Team (2020). RStan: the R interface to Stan. R package version 2.19.3. https://mc-stan.org

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manoby   *Interactive panel MANOVA classic, non parametric and bayesian*

Description

Interactive panel to visualize and develop one-way multivariate analysis of variance models, from the classical, non-parametric and Bayesian approach.

Usage

```
manoby(dataset = FALSE)
```

Arguments

dataset   Data set

Value

A shiny panel with the multivariate analyze of variance, PERMANOVA and Bayesian analyzes of variance, based on selection the dependents variables and independent variable of the data set provided, presents decision diagram that suggets correct method use.

Examples

```
library(MANOVA.RM)
data(EEGwide)
manoby(EEGwide)
```

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