

Package ‘RcmdrPlugin.StatisticalURV’

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Type Package

Title Statistical URV Rcmdr Plug-In

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Depends R (>= 2.15.2), tcltk, stats, graphics, utils,agricolae (>= 1.1-3), multcomp (>= 1.2-12), car (>= 2.0-12)

Imports Rcmdr

Description This package provides some statistical models with a different graphic's window that provides Rcmdr. It is developed as an Rcmdr plug-in.

License GPL (>= 3)

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RcmdrPlugin.StatisticalURV-package

Some statistical models dialog to the Rcmdr package

Description

This package provides an Rcmdr "plug-in". It provides a one way ANOVA dialog, ...

Details

Package: RcmdrPlugin.StatisticalURV
Type: Package
Version: 1.0-1
Date: 2013-24-01
License: GPL (>= 3)

Author(s)

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See Also

[Rcmdr](#).

oneWayANOVAURV

One Way ANOVA Dialog to the Rcmdr Package

Description

This dialog is used to show ANOVA results, and plot means

Details

The upper left model-formula box specifies the dependent variable, the bottom left model-formula box specifies the factor variable. The right boxes specify the selected variables of both. If you choose more than a dependent variable the result will be repeated for each of them.

There are three option buttons: Post Hoc, Options and Plots.

Post Hoc's Window. You can choose between:

- Bonferroni: This one uses [pairwise.t.test](#) function.
- Tukey: This one uses: [aov](#), [glht](#) and [confint](#) functions. The [par](#) and [plot](#) functions are used to draw plots
- LSD: This one uses: The [lm](#) and [anova](#) functions to calculate DFerror, MSerror for the [LSD.test](#) function.

Options Window: It shows the results of means, standard deviations and quantiles. It uses the [numSummary](#) function. Results of means and standard deviations are pre-selected

Graphics Window: Plots means with error bars for standard error, standard deviation, confidence interval or without errors bars. It uses [plotMeans](#) function.

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See Also

[Commander](#), [pairwise.t.test](#), [aov](#), [confint](#), [lm](#), [anova](#), [glht](#), [par](#), [plot](#), [numSummary](#), [plotMeans](#).

twoWayANOVAURV

Two Way ANOVA Dialog to the Rcmdr Package

Description

This dialog is used to show two way ANOVA results, and plot means

Details

The upper left model-formula box specifies the dependent variable, the middle left model-formula box specifies the factor variable, the bottom left model-formula box specifies the factor variable. The right boxes specify the selected variables of both. If you choose more than a dependent variable the result will be repeated for each of them.

If you introduce a covariate, the results showed uses the [summary](#) function.

There are two option buttons: Models and Plots.

Model's Window. You can choose between:

- Complete Model: There are interaction between factors.
- Main Factors: There are not interaction between factors.
- Interactions of order two. This one is pre-selected.

You can choose the type of sums of squares:

- Type I sums of Squares: This one uses: [lm](#), [anova](#) functions
- Type II sums of Squares: This one uses: [lm](#), [Anova](#) functions
- Type III sums of Squares: This one is pre-selected. It uses: [lm](#), [Anova](#) functions

Graphics Window: Plots means with error bars for standard error, standard deviation, confidence interval or without errors bars. It uses [plotMeans](#) function.

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See Also

[Commander](#), [lm](#), [anova](#), [summary](#), [Anova](#), [plotMeans](#).

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