Package 'RcmdrPlugin.NMBU'

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Type Package
Title R Commander Plug-in for University Level Applied Statistics
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Description An R Commander ``plug-in" extending functionality of linear models and providing an interface to Partial Least Squares Regression and Linear and Quadratic Discriminant analysis. Several statistical summaries are extended, predictions are offered for additional types of analyses, and extra plots, tests and mixed models are available.
License GPL (>= 2)
LazyLoad yes
LazyData yes
RcmdrModels mvr, lda, qda, prcomp, mer, rsm, glmerMod, lmerMod, lmm
RoxygenNote 5.0.1
NeedsCompilation no
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R topics documented:
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RcmdrPlugin.NMBU-package

R Commander Plug-in for University Level Applied Statistics

Description

This package provides an Rcmdr "plug-in" extending some functions of linear models and providing new and extended interfaces to PCA, PLS, LDA, QDA, clustering of variables, tests, plots, etc.

Details

Package: RcmdrPlugin.NMBU License: GPL version 2 or newer

LazyLoad: yes

Run the plugin using the code library(RcmdrPlugin.NMBU) or library(umb). Statistical and summary functions included:

- dummy(y)
- PRESS(object=NULL) (default is current model)
- PRESS.res(object=NULL) (default is current model)
- R2_pred(object=NULL) (default is current model)
- forward(model, alpha=0.2, full=FALSE)
- backward(model, alpha=0.2, full=FALSE)
- stepWise(model, alpha.enter=0.15, alpha.remove=0.15, full=FALSE)
- stepWiseBack(model, alpha.remove=0.15, alpha.enter=0.15, full=FALSE)
- best.subsets(model, nbest=5, nvmax)
- confint.mvr(object, parm, level=0.95, ...)
- confusion(true, predicted)
- DA.scores(object=NULL) (default is current model)
- plotDA(DAobject=NULL, regions=TRUE, contours=FALSE, resolution=100)
- hclust.merge(object) (default is last clustering)
- mixed.model(formula, random.effects=NULL, data, restrictedModel=FALSE, subset="")
- summary.extra(object)
- anova_reg(lm.object)
- predict_CI_PI(model, data, level)
- prop.test.ordinary(x, n, p = NULL, alternative = c("two.sided", "less", "greater"), conf.level
- rmsep(object) (default is current model)

Utility functions included:

- aovP()
- clustP()
- daP()
- mixP()
- pcaP()
- plsP()
- variablesP()
- DA.coef()
- hclust.list()
- listHclustSolutions(envir=.GlobalEnv, ...)
- make.colours(object)
- confint.mvr(object, parm, level=0.95, ...)
- dummy(y)
- dummify(y,n,name)
- Dummify(data, main.effects, response)
- fparse(f)
- if.R()

GUI Functions included:

- anova_reg_GUI()
- backwardDrop()
- backwardForward()
- bestSubsets()
- coefNMBU()
- contrastGUI()
- contrastGUI2()
- covarianceMatrix()
- createSequence()
- discriminantAnalysis()
- discriminantPlot()
- dotplotGUI()
- enterTableNMBU()
- fittedLinePlot()
- forwardAdd()
- forwardBackward()
- hierarchicalClusterVariable()

- linearModelANOVA()
- meanCenter()
- mixtureGUI()
- plsRegressionModel()
- postHocGUI()
- predictRegressionModel()
- PRESS.GUI()
- principalComponentPlots()
- principalComponentsStat()
- proportionTest()
- sortData()
- twoSamplesTTest()
- twoWayTableNMBU()

Graphical Functions included:

- CIplot()
- dotPlot()
- dots()
- mixture.contour()
- panel.ci.plot()
- plotDA()

Author(s)

Kristian Hovde Liland kristian.liland@nmbu.no

Examples

```
## Not run:
## This example shows alternative ways of starting
## package using the official plugin or an unofficial wrapper.
library(RcmdrPlugin.NMBU) # Starts up the R Commander including this plugin.
library(nmbu) # Simpler startup with automatic update hosted by NMBU (when available).
## End(Not run)
```

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extend.colnames

Extended summary from multinom

Description

Extended summary from multinom

Usage

```
extend.colnames(object, the.name)
```

Arguments

object object fitted with multinom.

the.name name to be added to column names.

Value

Returns object with new colnames.

Author(s)

Kristian Hovde Liland

 ${\it summary} {\it Multinom}$

Extended summary from multinom

Description

Extends the summary function of multinom object from nnet.

Usage

```
summaryMultinom(object)
```

Arguments

object

Object fitted by multinom.

Value

Only printing is performed, nothing is returned.

Author(s)

Kristian Hovde Liland

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summaryOrdinal	Extended summary from ordinal regression	

Description

Extended summary from ordinal regression.

Usage

```
summaryOrdinal(object, digits = max(3, .Options$digits - 3), correlation = FALSE, ...)
```

Arguments

object fitted ordinal regression.
digits number of digits in output.

correlation use correlation.

... additional arguments to pass on.

Value

Only printing is performed, nothing is returned.

Author(s)

Kristian Hovde Liland

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