Package 'longRPart2'

October 13, 2022

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ex.data.3

A dataset used as an example for longRPart2

Description

A dataset used as an example for longRPart2

Usage

ex.data.3

Format

A data frame with 600 rows and 4 variables:

id id number

z covariate

time time variable

y outcome ...

lcart.mod1

Longitudinal data with groups

Description

A saved image with rp object

Usage

lcart.mod1

Format

An object of class "lrp"

longRPart2

Trying to suppress notes from lrp2Plot

Description

Trying to suppress notes from lrp2Plot

lrp 3

lrp

Longitudinal Recursive Partitioning

Description

Longitudinal Recursive Partitioning

Usage

```
lrp(method, nlme.model = NULL, randomFormula, fixedFormula = NULL, data,
    start, group, rPartFormula, weight = NULL, R = NULL, min.dev = NULL,
    control = rpart.control())
```

Arguments

method Whether to use lme() or nlme(). Use either method="lme" or method="nlme".

This changes what additional arguments need to be passed.

nlme.model Necessary to specify if method="nlme"

randomFormula Random effects to include for nlme() or lme() fixedFormula Fixed effects to include for nlme() or lme()

data Dataset

start Starting values for nlme()
group Grouping for nlme()

rPartFormula Not sure yet

weight Sample weights to be passed to rpart

R Correlation matrix to use for nlme. this is correlation=

min.dev The minimum decrease in deviance to choose a split. Note that this overrides

the default cp criterion in rpart.control()

control Control function to be passed to rpart()

Examples

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```
nlme.model=y~b0i+b1i*time,
    fixedFormula=b0i+b1i~1,
    rPartFormula = ~ z,
    group= ~ id,
    randomFormula=b0i+b1i~1,
    data=ex.data.3,
    start=c(10,5))

data(lcart.mod1)
summary(lcart.mod1)
plot(lcart.mod1)
#lrp2Plot(lcart.mod1)
```

lrp2Plot

Longitudinal Recursive Partitioning Plotting Function

Description

Longitudinal Recursive Partitioning Plotting Function

Usage

```
lrp2Plot(model, smooth_method = "loess")
```

Arguments

model A longrpart2 model.

smooth_method Whether to use generalized additive models, smooth_method="gam", or loess,

smooth_method="loess". Defaults to loess.

Examples

library(longRPart2)

lrpPlot

Plot Expected Trajectories

Description

Plot Expected Trajectories

Usage

```
lrpPlot(model, smoothing = "n", color = NULL, place = "bottomright")
```

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Arguments

model Model object from longRPart2()
smoothing Type of smoothing for trajectoris

color Color to use

place Where to place the plot

plot.lrp

Plot function for longRPart2

Description

Plot function for longRPart2

Usage

```
## S3 method for class 'lrp' plot(x, ...)
```

Arguments

x A model from lrp.... Other arguments.

summary.lrp

Summary results from lrp.

Description

Summary results from lrp.

Usage

```
## S3 method for class 'lrp'
summary(object, ...)
```

Arguments

object An object from lrp.
... Other arguments.

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