

Package 'laercio'

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Type Package

Title Duncan test, Tukey test and Scott-Knott test.

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Description The package contains functions to compare and group means.

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laercio-package *Duncan test, Tukey test and Scott-Knott test.*

Description

The package contains functions to compare and group means.

Details

Package: laercio
Type: Package
Version: 1.0-0
Date: 2008-09-07
License: GPL (>= 2)

Author(s)

Laercio Junio da Silva

Maintainer: Laercio Junio da Silva <laerciojunio@yahoo.com.br>

ldata

Data for examples

Description

Data only for to use in the examples.

Author(s)

Laercio Junio da Silva <laerciojunio@yahoo.com.br>

Examples

```
require(laercio)
ldata$trat <- as.factor(ldata$trat)
anv <- aov(resp~trat,ldata)
anova(anv)
LTukey(anv, "trat")
```

LDuncan

Duncan test

Description

Duncan test to compare means.

Usage

```
LDuncan(anova, which = "", conf.level = 0.95)
```

Arguments

`anova` A aov fitted model object.
`which` A term in the fitted model for be used in the test. Defaults to all the terms.
`conf.level` A numeric value between zero and one. Default is 0.95.

Author(s)

Laercio Junio da Silva (laerciojunio@yahoo.com.br)

Examples

```
require(laercio)
ldata$strat <- as.factor(ldata$strat)
anv <- aov(resp~trat,ldata)
anova(anv)
LDuncan(anv,"trat")
```

LScottKnott

Scott-Knott test

Description

Scott-Knott test to group means. This function was tested and it worked correctly for completely random design and randomized complete block design.

Usage

```
LScottKnott(anova, which, conf.level=0.95)
```

Arguments

`anova` A aov fitted model object.
`which` The factor in the fitted model for be used in the test.
`conf.level` A numeric value between zero and one. Default is 0.95.

Author(s)

Laercio Junio da Silva (laerciojunio@yahoo.com.br)

References

GATES, C.E.; BILBRO, J.D. Illustration of a Cluster Analysis Method for Mean Separation. Agronomy Journal, Vol.70, May-June 1978.

Examples

```
#completely random design
require(laercio)
ldata$trat <- factor(ldata$trat)
anv <- aov(resp~trat,ldata)
anova(anv)
LScottKnott(anv,"trat")

#randomized complete block design
require(laercio)
ldata$trat <- factor(ldata$trat)
ldata$block <- factor(ldata$block)
anv <- aov(resp~trat+block,ldata)
anova(anv)
LScottKnott(anv,"trat")
LScottKnott(anv,"block")
```

LTukey

Tukey test

Description

Tukey teste to compare means.

Usage

```
LTukey(anova, which = "", conf.level = 0.95)
```

Arguments

anova A aov fitted model object.
which A term in the fitted model for be used in the test. Defaults to all the terms.
conf.level A numeric value between zero and one. Default is 0.95.

Author(s)

Laercio Junio da Silva (laerciojunio@yahoo.com.br)

Examples

```
require(laercio)
ldata$trat <- as.factor(ldata$trat)
anv <- aov(resp~trat,ldata)
anova(anv)
LTukey(anv,"trat")
```

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