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.

License GPL (>= 3)

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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

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`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$trat <- as.factor(ldata$trat)
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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