Package 'SplitSplitPlot'

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Type Package

Title Analysis of Split-Split-Plot Experiments (Analise De Experimentos Em Parcela Subsubdividida)

Version 0.0.1

Description Performs analysis of split-split plot experiments in both completely randomized and randomized complete block designs. With the results, you can obtain ANOVA, mean tests, and regression analysis (Este pacote faz a analise de experimentos em parcela subsubdivididas no delineamento inteiramente casualizado e delineamento em blocos casualizados. Com resultados e possível obter a ANOVA, testes de medias e análise de regressao) <https://www.expstat.com/pacotes-do-r>.

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Encoding UTF-8

LazyData true

RoxygenNote 7.2.2

NeedsCompilation no

Author Alcinei Mistico Azevedo [aut, cre] (ORCID: <https://orcid.org/0000-0001-5196-0851>)

Maintainer Alcinei Mistico Azevedo <alcineimistico@hotmail.com>

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SplitSplitPlot-package *Analysis of split-split-plot experiments (Analise de experimentos em parcela subsubdividida)*

Description

SplitSplitPlot: Performs analysis of split-split-plot experiments(realiza a analise de experimentos em parcela subsubdividida).

Author(s)

Alcinei Mistico Azevedo <alcineimistico@hotmail.com>

References

Canal no youtube -> Alcinei Azevedo - Dicas e aulas <https://www.youtube.com/playlist?list=PLvth1ZcREyK4wSzwg-IxvrzaNzSLLrXEB>

BANZATTO, D. A.; KRONKA, S. N. Experimentacao Agricola. 4 ed. Jaboticabal: Funep. 2006. 237 p.

GOMES, F. P. Curso de Estatistica Experimental. 10a ed. Piracicaba: ESALQ/USP. 1982. 430.

See Also

aov, lm

ex1 *Dados de exemplo de um experimento em DQL.*

Description

Exemplo simulado com um conjunto de dados de um experimento em quadrados latino

Usage

```
data(ex1)
```

Format

Simulated example dataset for analysis of split-split-plot design (Conjunto de dados simulados de exemplo para a analise do esquema de parcelas subsubdivididas).

Author(s)

Alcinei Mistico Azevedo: <alcineimistico@hotmail.com>

References

<https://www.youtube.com/playlist?list=PLvth1ZcREyK72M3lFl7kBaHiVh5W53mlR>

`ssplot` *Analysis of split-split plot experiment(Analise de experimento em parcela subsubdividida)*

Description

This enables the analysis of split-split plot experiments. For quantitative factors, regression models are adjusted. For qualitative factors, multiple comparison tests are conducted (Esta possibilita a analise de experimentos em parcela subsubdividida. Para os fatores quantitativos são ajustados modelos de regressao. Para os fatores qualitativos sao feitos testes de comparacoes multiplas).

Usage

```
ssplot(data,design=2,quali=c(TRUE,TRUE,TRUE),sig=0.05,verbose=TRUE)
```

Arguments

`data`	Matrix containing necessarily 5 columns, with the identification of the levels of factor A, factor B, factor C, Replications, and response variable, respectively (Matriz contendo obrigatoriamente nas 5 colunas a identificacao dos niveis do fator A, fator B, fator C, Repeticoes e variavel resposta, reespectivaemnte).
`design`	Indicates the statistical design (indica o delineamento estatistico). • design=1 Completely randomized design (Delineamento inteiramente casualizado). • design=2 Randomized complete block design (Delineamento em blocos casualizados).
`quali`	Vector with three logical values (TRUE/FALSE). TRUE indicates that the respective factor is qualitative, performing the mean test. FALSE indicates that the factor is quantitative, and regression analysis is performed (Vetor com tres valores logicos (TRUE/FALSE). TRUE indica que o respectivo fator e qualitativo, realizando-se o teste de medias. FALSE indica que o fator e quantitativo, sendo feita a analise de regressao).
`sig`	Value indicating the significance level (default = 0.05) (valor indicando o nivel de significancia (default = 0.05)).
`verbose`	Logical value (TRUE/FALSE), TRUE displays the analysis results. (Valor logico (TRUE/FALSE), TRUE apresenta os resultados da analise).

Value

Returns the results of split-split plot experiments (Retorna os resultados de experimentos em parcelas subsubdivididas).

Author(s)

Alcinei Mistico Azevedo, <alcineimistico@hotmail.com>

References

<https://www.youtube.com/playlist?list=PLvth1ZcREyK4wSzwg-IxvrzaNzSLLrXEB>

BANZATTO, D. A.; KRONKA, S. N. Experimentacao Agricola. 4 ed. Jaboticabal: Funep. 2006. 237 p.

GOMES, F. P. Curso de Estatistica Experimental. 10a ed. Piracicaba: ESALQ/USP. 1982. 430.

Examples

```
##Exemplo de experimento

data(ex1)


############################################################
#######Analysis considering all qualitative factors #######
############################################################

#Analysis considering the Completely Randomized Design.
#Analise considerando o Delineamento inteiramente casualizado
ssplot(ex1,design=1,quali=c(TRUE,TRUE,TRUE))

#Analysis considering the Randomized Complete Block Design
#Analise considerando o Delineamento em blocos casualizados
ssplot(ex1,design=2,quali=c(TRUE,TRUE,TRUE))

############################################################
#######Analysis considering two of the factors as quantitative. #######
############################################################


#' #Analysis considering the Completely Randomized Design.
#Analise considerando o Delineamento inteiramente casualizado
ssplot(ex1,design=1,quali=c(TRUE,FALSE,FALSE))

#Analysis considering the Randomized Complete Block Design
#Analise considerando o Delineamento em blocos casualizados
ssplot(ex1,design=2,quali=c(TRUE,FALSE,FALSE))
```

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