Package ‘BAYESDEF’

June 6, 2017

Type Package
Version 0.1.0
Date 2017-06-05
Title Bayesian Analysis of DSD
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Maintainer Nery Sofia Huerta-Pacheco <nehuerta@uv.mx>
Depends R(>= 3.0.0), tcltk, gWidgets
Description Definitive Screening Designs are a class of experimental designs that under factor sparsity have the potential to estimate linear, quadratic and interaction effects with little experimental effort. BAYESDEF is a package that performs a five step strategy to analyze this kind of experiments that makes use of tools coming from the Bayesian approach. It also includes the least absolute shrinkage and selection operator (lasso) as a check (Aguirre VM. (2016) <DOI:10.1002/asmb.2160>).
Imports readxl, glmnet, REdaS
SystemRequirements Tcl/Tk package
License GPL (>= 2)
URL http://www.uv.mx/personal/nehuerta/bayesdef/
NeedsCompilation no
Encoding UTF-8
RoxygenNote 6.0.1
Repository CRAN
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R topics documented:

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Description

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You can learn more about this package at: http://www.uv.mx/personal/nehuerta/bayesdef/

Usage

BAYESDEF()

Details

BAYESDEF is a package with a graphical interface dedicated to perform Bayesian analysis of Definitive Screening Designs with thirteen runs. These very economic experimental plans are gaining popularity because, under certain conditions, they allow the estimation of main, interaction and quadratic effects. The package also allows the user to fit custom models to the data. It also includes the additional feature to analyze the data using the least absolute shrinkage and selection operator "lasso". Note: BAYESDEF is free software and comes with ABSOLUTELY NO WARRANTY.

Value

BAYESDEF is a graphic interface

Author(s)

Victor Manuel Aguirre-Torres, Nery Sofia Huerta-Pacheco, Edgar A. Lopez

References


Examples

## Not run:
## Install package
library(\texttt{BAYESDEF})
## Call the package
\texttt{BAYESDEF()}  

## End(Not run)
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