Package ‘REPPlabShiny’

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Type Package

Title 'REPPlab' via a Shiny Application

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Description
Performs exploratory projection pursuit via 'REPPlab' (Daniel Fischer, Alain Berro, Klaus Nordhausen & Anne Ruiz-Gazen (2019) <doi:10.1080/03610918.2019.1626880>) using a Shiny app.

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Depends shiny, DT, REPPlab

Encoding UTF-8

NeedsCompilation no

RoxygenNote 7.2.3

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print.epplabshiny *Prints the 'REPPlabShiny' Results*

Description

Prints some information about objects of class epplabshiny, typically the result of a call to REPPlabShiny. Printed is only a table with the names, indices and algorithms used for calculated EPPlab object, not the whole content of the object.

Usage

```
## S3 method for class 'epplabshiny'
print(x, ...)
```

Arguments

x	an object of class epplabshiny.
...	further arguments passed to or from other methods.

See Also

REPPlabShiny

Examples

```
if(interactive()){
 data(ReliabilityData)
 Repplablistshiny <- REPPlabShiny(ReliabilityData)
 print(Repplablistshiny)
 }
```

REPPlabShiny *Exploratory Projection Pursuit with a Shiny App*

Description

Performs exploratory projection pursuit as implemented in 'REPPlab' via a shiny app where the user can calculate up to five EPPlab objects and work with the results. Suitable for outlier detection or cluster identification. The actions in the Shiny app can be saved for further processing in R.

Usage

```
REPPlabShiny(x)
```

Arguments

x	data matrix or data frame. Can also contain non-numerical variables. The user can choose in the app which rows and columns will be used.

Value

Returns an object of class `epplabshiny`. The object consists of a list of length five containing the calculated `EPPlab` objects each having class `epplab`. If not five `epplab` objects were computed, the corresponding list entry is an empty list. Note that print here only summarizes the output in order not to clutter the screen.

References

Fischer, D., Berro, A, Nordhausen, K. and Ruiz-Gazen, A. (2019), *REPPlab: An R package for detecting clusters and outliers using exploratory projection pursuit*, Communications in Statistics - Simulation and Computation, doi:10.1080/03610918.2019.1626880.

See Also

Shiny, `EPPlab`

Examples

```
if(interactive()){

 data(ReliabilityData)
 str(ReliabilityData)
 Repplablistshiny <- REPPlabShiny(ReliabilityData)
 Repplablistshiny
 str(Repplablistshiny)
 }
```

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