Package ‘RSP’

September 24, 2023

Type Package
Title 'shiny' Applications for Statistical and Psychometric Analysis
Version 0.4
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Description Toolbox with 'shiny' applications for widely used psychometric methods. Those methods include following analysis: Item analysis, item response theory calibration, principal component analysis, confirmatory factor analysis - structural equation modeling, generating simulated data.
References:
Chalmers (2012, <doi:10.18637/jss.v048.i06>);
Revelle (2022, <https://CRAN.R-project.org/package=psych Version = 2.2.9>);
Rosseel (2012, <doi:10.18637/jss.v048.i02>);
Magis & Raiche (2012, <doi:10.18637/jss.v048.i08>);
License GPL-3
Encoding UTF-8
RoxygenNote 7.2.3
Imports DT, GPArotation, MVN, Metrics, ShinyItemAnalysis, catR, foreign, gt, hormpa, igraph, lavaan, mirt, plyr, ggplot2, polycor, psych, rJava, semPlot, shinyBS, shinyWidgets, scales, ltm, shiniycustomloader, shinyjs, shinythemes, xlsx, shiny, utils, rstudioapi
Depends R (>= 2.10)
Suggests knitr, rmarkdown, testthat (>= 3.0.0)
Config/testthat/edition 3
VignetteBuilder knitr
NeedsCompilation no
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Repository CRAN
Date/Publication 2023-09-24 21:00:02 UTC
R topics documented:

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Description

Testing measurement & structural models for dichotomous and polytomous data

Usage

CFA()

Value

No return value, opens web browser and loads shiny application

Examples

```r
# Not run: CFA()
```

---

Description

Run exploratory factor analysis for dichotomous and polytomous data

Usage

FA()

Value

No return value, opens web browser and loads shiny application

Examples

```r
# Not run: FA()
```
Run exploratory factor analysis for dichotomous and polytomous data

**Description**
Run exploratory factor analysis for dichotomous and polytomous data

**Usage**
INTERNAL()

**Value**
No return value, opens web browser and loads shiny application

**Examples**
## Not run: FA()

Item calibration according to item response theory models

**Description**
Item calibration according to item response theory models

**Usage**
IRT()

**Value**
No return value, opens web browser and loads shiny application

**Examples**
## Not run: IRT()
ITEMAN

*Item and test statistics based on classical test theory,*

**Description**

Item and test statistics based on classical test theory,

**Usage**

ITEMAN()

**Value**

No return value, opens web browser and loads shiny application

**Examples**

```r
## Not run: ITEMAN()
```

PCA

*Run principal component analysis for dichotomous and polytomous data*

**Description**

Run principal component analysis for dichotomous and polytomous data

**Usage**

PCA()

**Value**

No return value, opens web browser and loads shiny application

**Examples**

```r
## Not run: PCA()
```
SIMDATA

Generate simulated data according to IRT for dichotomous and polytomous data. Generate multidimensional data for factor analysis.

# param options(java.parameters = "-Xmx8000m")

Description

Generate simulated data according to IRT for dichotomous and polytomous data. Generate multidimensional data for factor analysis.

Usage

SIMDATA()

Value

No return value. Opens web browser and loads shiny application.

Examples

## Not run: SIMDATA()
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