

Package ‘RSP’

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Type Package

Title 'shiny' Applications for Statistical and Psychometric Analysis

Version 0.5

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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](https://doi.org/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](https://doi.org/10.18637/jss.v048.i02)>);

Magis & Raiche (2012, <[doi:10.18637/jss.v048.i08](https://doi.org/10.18637/jss.v048.i08)>);

Magis & Barrada (2017, <[doi:10.18637/jss.v076.c01](https://doi.org/10.18637/jss.v076.c01)>).

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Encoding UTF-8

RoxygenNote 7.3.3

Imports DT, GPArotation, MVN (>= 6.0), Metrics, ShinyItemAnalysis, catR, foreign, gt, hornpa, igraph, lavaan, mirt, plyr, ggplot2, polycor, psych, rJava, semPlot, shinyBS, shinyWidgets, scales, ltm, shinycustomloader, 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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CFA	<i>Testing measurement & structural models for dichotomous and polytomous data</i>
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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

Not run: CFA()

FA	<i>Run exploratory factor analysis for dichotomous and polytomous data</i>
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Description

Run exploratory factor analysis for dichotomous and polytomous data

Usage

FA()

Value

No return value, opens web browser and loads shiny application

Examples

Not run: FA()

INTERNAL*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()
```

IRT*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

```
## 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

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

SIMDATA	<i>Generate simulated data according to IRT for dichotomous and polytomous data Generate multidimensional data for factor analysis # param options(java.parameters = "-Xmx8000m")</i>
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Description

Generate simulated data according to IRT for dichotomous and polytomous data Generate multidimensional data for factor analysis # param options(java.parameters = "-Xmx8000m")

Usage

```
SIMDATA()
```

Value

No return value, opens web browser and loads shiny application

Examples

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

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