Package 'MplusReadR'

November 23, 2020

Title Tabulate and Format Mplus Output

Version 0.1.0

Imports MplusAutomation, htmlTable, dplyr, magrittr

Description The MplusReadR package formulates MPlus output into APA-formatted tables, ready for inclusion in scientific publications. Users can adjust the variables and parameters displayed. It also includes helper functions which check whether models converged, and indicates what variables and parameters are available.

License `use_mit_license()`

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.1.1

Suggests testthat

R topics documented:

`dejon_apa_table` *APA-style Mplus Tables for Dejonckheere Project*

Description

Creates APA-style tables for the Dejonckheere Project containing output from multiple Mplus objects.

Usage

```
dejon_apa_table(tidy_data, model_type)
```

Arguments

tidy_data	A tidy dataset of Mplus models, created by dejon_compile().
model_type	One of 'null', 'univariate', or 'bivariate'.

Value

APA-style table of Mplus output for the Dejonckheere Project.

See Also

dejon_compile()

---

dejon_compile *Compile Mplus Data for Dejonckheere Project*

Description

Creates a tidy dataset for the Dejonckheere Project containing analyses from multiple Mplus objects. This can then be used in the dejon_apa_table() function, or can be saved separately.

Usage

```
dejon_compile(
  Mplus_file,
  model_type,
  rounding = 2,
  parameters = NULL,
  variables = NULL,
  paramheaders = NULL,
  outcomes = NULL,
  standardized = TRUE
)
```

Arguments

Mplus_file	An Mplus object for the Dejonckheere project generated by the Mplus Automation package from Mplus output using the MplusAutomation::readModels() function.
model_type	One of 'null', 'univariate', or 'bivariate'.
rounding	A value between 0 and 3. Defaults to 2.
parameters	Parameters in the Mplus output, without the variable name at the start e.g. NAMEAN is MEAN, NASDW is SDW. Must be in capitals, and exactly like it is in the original output. These can be found using mplus_check_params(). Defaults to all available parameters.
variables	Variables from the Mplus output. Exact variable names can be found using mplus_check_params(). Defaults to all available variables.
paramheaders	Parameter headers from the Mplus output. Exact parameter headers can be found using mplus_check_params(). For null models, defaults to New.Additional.Parameters. For univariate and bivariate models, defaults to Z.ON and R2.

outcomes	Outcome variables in the Mplus output. Available outcomes can be found using mplus_check_params(). Defaults to all outcomes.
standardized	Whether standardized or unstandardized output should be used for univariate and bivariate models. Defaults to TRUE.

Value

A tibble containing specified variables and parameters from multiple Mplus models.

See Also

dejon_apa_table() MplusAutomation::readModels() mplus_check_params()

---

mplus_check_params *Check Parameters*

Description

Checks the options available to select in mplus_compile() or dejon_compile().

Usage

```
mplus_check_params(
  Mplus_file,
  parameter_type,
  standardized = TRUE,
  project = "other"
)
```

Arguments

Mplus_file	An mplus object generated by the Mplus Automation package from Mplus output using the MplusAutomation::readModels() function.
parameter_type	One of 'parameters', 'paramheader' or 'display'. It is also possible to select 'outcomes' and 'variables' for Dejonckheere project models.
standardized	Whether standardized or unstandardized output should be used for univariate and bivariate models. Defaults to TRUE.
project	Whether the parameters are for the Dejon project or another project. One of 'dejon', 'other'. Defaults to 'other'.

Value

A list of available options for mplus_compile() or dejon_compile().

See Also

mplus_compile() dejon_compile() MplusAutomation::readModels()

mplus_compile *Compile Mplus Data*

Description

Creates a tidy dataset containing analyses from multiple Mplus objects. This can then be used in the `mplus_apa_table()` function, or can be saved separately.

Usage

```
mplus_compile(
  Mplus_file,
  rounding = 2,
  param_header = NULL,
  parameter = NULL,
  display = "all",
  standardized = TRUE,
  converged = TRUE,
  define = FALSE
)
```

Arguments

`Mplus_file`	An mplus object generated by the Mplus Automation package from Mplus output using the `MplusAutomation::readModels()` function.
`rounding`	A value between 0 and 3. Defaults to 2.
`param_header`	Parameter headers from the Mplus output. Exact parameter headers can be found using `mplus_check_params()`.
`parameter`	Parameters in the Mplus output. These can be found using `mplus_check_params()`). Defaults to all available parameters.
`display`	How many columns should be displayed. Choose from "all", "minimal", "descriptives" or manually specify which columns should be displayed. Available columns can be found using `mplus_check_params()`.
`standardized`	Whether standardized or unstandardized output should be used for univariate and bivariate models. Defaults to TRUE.
`converged`	If TRUE, removes non-converged models.
`define`	Displays a column containing information from the 'define' input in the Mplus file. Defaults to FALSE.

Value

A tibble containing specified variables and parameters from multiple Mplus models.

See Also

`mplus_apa_table()` `mplus_check_params()`

mplus_converge *Check Model Convergence*

Description

Determines whether any of the Mplus models did not converge. Models that do not converge will not report confidence intervals. This is used to determine whether a model converged.

Usage

```
mplus_converge(Mplus_file)
```

Arguments

Mplus_file	An Mplus object generated by the Mplus Automation package from Mplus output using the readModels function. This can contain multiple models.

Value

A tidy dataset indicating whether each of the models converged.

mplus_remove_converge *Remove Non-Converged Models*

Description

Checks whether any models in the list of Mplus models did not converge, and removes those that did not converge.

Usage

```
mplus_remove_converge(Mplus_model)
```

Arguments

Mplus_file	An Mplus object generated by the Mplus Automation package from Mplus output using the readModels function. This can contain multiple models.

Value

The original Mplus output excluding the non-converged models.

See Also

mplus_converge

Index