Package 'fitDTVARMx'

July 2, 2024

Title Fit The Discrete-Time Vector Autoregressive Model

Version 0.0.0.9000

Description Fit the discrete-time vector autoregressive model using the 'OpenMx' package.

URL https://github.com/jeksterslab/fitDTVARMx,
https://jeksterslab.github.io/fitDTVARMx/

BugReports https://github.com/jeksterslab/fitDTVARMx/issues

License GPL (>= 3)

Encoding UTF-8

Roxygen list(markdown = TRUE)

VignetteBuilder knitr

Depends R (>= 3.0.0), OpenMx

Imports stats

Suggests knitr, rmarkdown, testthat

RoxygenNote 7.3.2

NeedsCompilation no

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Contents

`FitDTVARIDMx` *Fit First Order Discrete-Time Vector Autoregressive Model by ID*

Description

Fit First Order Discrete-Time Vector Autoregressive Model by ID

Usage

```
FitDTVARIDMx(
  data,
  observed,
  id,
  beta_start = NULL,
  beta_lbound = NULL,
  beta_ubound = NULL,
  psi_start = NULL,
  psi_lbound = NULL,
  psi_ubound = NULL,
  try = 1000,
  ncores = NULL
)
```

Arguments

`data`	Data frame. A data frame object of data for potentially multiple subjects that contain a column of subject ID numbers (i.e., an ID variable), and at least one column of observed values.
`observed`	Character vector. A vector of character strings of the names of the observed variables in the data.
`id`	Character string. A character string of the name of the ID variable in the data.
`beta_start`	Optional starting values for `beta`.
`beta_lbound`	Optional lower bound for `beta`.
`beta_ubound`	Optional upper bound for `beta`.
`psi_start`	Optional starting values for `psi`.
`psi_lbound`	Optional lower bound for `psi`.
`psi_ubound`	Optional upper bound for `psi`.
`try`	Positive integer. Number of extra tries for `OpenMx::mxTryHard()`.
`ncores`	Positive integer. Number of cores to use.

Author(s)

Ivan Jacob Agaloos Pesigan

print.fitdtvaridmx *Print Method for Object of Class* fitdtvaridmx

Description

Print Method for Object of Class fitdtvaridmx

Usage

```
## S3 method for class 'fitdtvaridmx'
print(x, means = TRUE, ...)
```

Arguments

x	an object of class fitdtvaridmx.
means	Logical. If means = TRUE, return means. Otherwise, the function returns raw estimates.
...	further arguments.

Author(s)

Ivan Jacob Agaloos Pesigan

summary.fitdtvaridmx *Summary Method for Object of Class* fitdtvaridmx

Description

Summary Method for Object of Class fitdtvaridmx

Usage

```
## S3 method for class 'fitdtvaridmx'
summary(object, means = TRUE, ...)
```

Arguments

object	an object of class fitdtvaridmx.
means	Logical. If means = TRUE, return means. Otherwise, the function returns raw estimates.
...	further arguments.

Author(s)

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Index