Package 'fitDTVARMx'

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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.
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<pre>BugReports https://github.com/jeksterslab/fitDTVARMx/issues</pre>
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coef.fitdtvaridmx

Parameter Estimates

Description

Parameter Estimates

Usage

```
## S3 method for class 'fitdtvaridmx'
coef(object, psi = TRUE, ...)
```

Arguments

object Object of class fitdtvaridmx.

psi Logical. If psi = TRUE, include estimates of the psi matrix. If psi = FALSE,

exclude estimates of the psi matrix.

... additional arguments.

Value

Returns a list of vectors of parameter estimates.

Author(s)

Ivan Jacob Agaloos Pesigan

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,
```

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```
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.

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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)

Ivan Jacob Agaloos Pesigan

vcov.fitdtvaridmx

Sampling Covariance Matrix of the Parameter Estimates

Description

Sampling Covariance Matrix of the Parameter Estimates

Usage

```
## S3 method for class 'fitdtvaridmx'
vcov(object, psi = TRUE, ...)
```

Arguments

object Object of class fitdtvaridmx.

psi Logical. If psi = TRUE, include estimates of the psi matrix. If psi = FALSE,

exclude estimates of the psi matrix.

... additional arguments.

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Value

Returns a list of sampling variance-covariance matrices.

Author(s)

Ivan Jacob Agaloos Pesigan

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