Package 'manMetaVAR'

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Compress

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Compress Replication

Description

Compress Replication

Usage

Compress(taskid, repid, output_folder)

Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID.

output_folder Character string. Output folder.

Value

The output is saved as an external file in output_folder.

Author(s)

FitDTVAR 3

FitDTVAR

Fit the Model using the fitDTVARMx Package

Description

The function fits the model using the fitDTVARMx package.

Usage

```
FitDTVAR(data, ncores = NULL)
```

Arguments

data R object. Output of the GenData() function.

ncores Positive integer. Number of cores to use.

See Also

```
Other Model Fitting Functions: FitJAGS(), FitMLVAR()
```

Examples

```
## Not run:
set.seed(42)
data <- GenData(taskid = 1)
fit <- FitDTVAR(
    data = data,
    ncores = parallel::detectCores()
)
summary(fit)
## End(Not run)</pre>
```

FitJAGS

Fit the Model using JAGS

Description

The function fits the model using JAGS.

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Usage

```
FitJAGS(
   data,
   n.chains = 4,
   n.adapt = 2000,
   n.iter = 10000,
   max_iter = 10000,
   seed = NULL
)
```

Arguments

See Also

Other Model Fitting Functions: FitDTVAR(), FitMLVAR()

Examples

```
## Not run:
set.seed(42)
data <- GenData(taskid = 1)
fit <- FitJAGS(data = data)
summary(fit)
## End(Not run)</pre>
```

FitMetaVAR

Multivariate Meta-Analysis using the metaVAR Package

Description

The function performs multivariate meta-snalysis using the metaVAR package.

Usage

```
FitMetaVAR(fit, ncores = NULL)
```

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Arguments

fit R object. Output of the FitDTVARMx() function.
ncores Positive integer. Number of cores to use.

Examples

```
## Not run:
set.seed(42)
data <- GenData(taskid = 1)
fit <- FitDTVAR(
    data = data,
    ncores = parallel::detectCores()
)
pooled <- FitMetaVAR(
    fit = fit,
    ncores = parallel::detectCores()
)
summary(pooled)
## End(Not run)</pre>
```

FitMLVAR

Fit the Model using the mlVAR Package

Description

The function fits the model using the mlVAR package.

Usage

```
FitMLVAR(data)
```

Arguments

data R object. Output of the GenData() function.

See Also

```
Other Model Fitting Functions: FitDTVAR(), FitJAGS()
```

Examples

```
## Not run:
set.seed(42)
data <- GenData(taskid = 1)
fit <- FitMLVAR(data = data)
summary(fit)
## End(Not run)</pre>
```

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GenData

Simulate Data

Description

The function simulates data using the simStateSpace::SimSSMIVary() function.

Usage

```
GenData(taskid)
```

Arguments

taskid

Positive integer. Task ID.

Examples

```
## Not run:
set.seed(42)
data <- GenData(taskid = 1)
## End(Not run)</pre>
```

params

Simulation Parameters

Description

Simulation Parameters

Usage

params

Format

A dataframe with 25 rows and 3 columns:

taskid Simulation Task ID.

n Sample size.

time Number of measurement occassions.

Author(s)

Sim 7

Sim	Simulation Replication	

Description

Simulation Replication

Usage

```
Sim(taskid, repid, output_folder, overwrite, integrity, seed)
```

Arguments

Positive integer. Task ID. taskid repid Positive integer. Replication ID. Character string. Output folder. output_folder overwrite Logical. Overwrite existing output in output_folder. integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

Integer. Random seed. seed

Value

The output is saved as an external file in output_folder.

Author(s)

Ivan Jacob Agaloos Pesigan

SimFitDTVAR	Simulation Replication - FitDTVAR	

Description

Simulation Replication - FitDTVAR

Usage

```
SimFitDTVAR(taskid, repid, output_folder, seed, suffix, overwrite, integrity)
```

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Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID. output_folder Character string. Output folder.

seed Integer. Random seed.

suffix Character string. Output of manCTMed:::.SimSuffix().

overwrite Logical. Overwrite existing output in output_folder.

integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

Details

This function is executed via the Sim function.

Value

The output is saved as an external file in output_folder.

Author(s)

Ivan Jacob Agaloos Pesigan

SimFitJAGS Simulation Replication - FitJAGS

Description

Simulation Replication - FitJAGS

Usage

SimFitJAGS(taskid, repid, output_folder, seed, suffix, overwrite, integrity)

Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID. output_folder Character string. Output folder.

seed Integer. Random seed.

suffix Character string. Output of manCTMed:::.SimSuffix().

overwrite Logical. Overwrite existing output in output_folder.

integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

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Details

This function is executed via the Sim function.

Value

The output is saved as an external file in output_folder.

Author(s)

Ivan Jacob Agaloos Pesigan

SimFitMetaVAR Simulation Replication - FitMetaVAR

Description

Simulation Replication - FitMetaVAR

Usage

SimFitMetaVAR(taskid, repid, output_folder, seed, suffix, overwrite, integrity)

Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID. output_folder Character string. Output folder.

seed Integer. Random seed.

suffix Character string. Output of manCTMed:::.SimSuffix().

overwrite Logical. Overwrite existing output in output_folder.

integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

Details

This function is executed via the Sim function.

Value

The output is saved as an external file in output_folder.

Author(s)

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S	imFitMLVAR	Simulation Replication - FitMLVAR

Description

Simulation Replication - FitMLVAR

Usage

```
SimFitMLVAR(taskid, repid, output_folder, seed, suffix, overwrite, integrity)
```

Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID. output_folder Character string. Output folder.

seed Integer. Random seed.

suffix Character string. Output of manCTMed:::.SimSuffix().

overwrite Logical. Overwrite existing output in output_folder.

integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

Details

This function is executed via the Sim function.

Value

The output is saved as an external file in output_folder.

Author(s)

SimFN 11

	SimFN	Simulation File Name	
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Description

Simulation File Name

Usage

```
SimFN(output_type, output_folder, suffix)
```

Arguments

output_type Character string. Output type. Valid values include "data", "fit-dt-var-mx",

"fit-meta-var-mx", "fit-ml-var", and "fit-jags".

output_folder Character string. Output folder.

suffix Character string. Output of manCTMed:::.SimSuffix().

Value

Returns a character string file name with the output_folder in the OS-specific format.

Description

Simulation Replication - GenData

Usage

```
SimGenData(taskid, repid, output_folder, seed, suffix, overwrite, integrity)
```

Arguments

taskid Positive integer. Task ID.

repid Positive integer. Replication ID. output_folder Character string. Output folder.

seed Integer. Random seed.

suffix Character string. Output of manCTMed:::.SimSuffix().

overwrite Logical. Overwrite existing output in output_folder.

integrity Logical. If integrity = TRUE, check for the output file integrity when overwrite

= FALSE.

SimProj

Details

This function is executed via the Sim function.

Value

The output is saved as an external file in output_folder.

Author(s)

Ivan Jacob Agaloos Pesigan

 ${\tt SimProj}$

Simulation Project Name

Description

Simulation Project Name

Usage

SimProj()

Value

Returns the project name as a character string.

Author(s)

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