Package 'remverse'

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Title A Meta-Package for Relational Event History Analysis

Version 0.1.0

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Description A unified workflow for relational event modeling by re-exporting core functions from 'remify', 'remstats', and 'remstimate'. Supports tie-oriented and actor-oriented modeling with frequentist and Bayesian estimation. Methods are described in Butts (2008) <doi:10.1111/j.1467-9531.2008.00203.x> and Stadtfeld and Block (2017) <doi:10.1177/0081175017709295>.

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Encoding UTF-8

RoxygenNote 7.3.3

Depends R (>= 4.0), remify (>= 4.0.0), remstats (>= 4.0.0), remstimate (>= 3.0.0)

Suggests knitr, rmarkdown

LazyData true

VignetteBuilder knitr

NeedsCompilation no

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`remverse-package` *remverse: A Collection of R Packages for Relational Event Modeling*

Description

The remverse package loads an ensemble of R packages for working with Relational Event Histories (REH): preprocessing event sequences (**remify**), computing network statistics (**remstats**), and estimating relational event models (**remstimate**).

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Examples

```
library(remverse)

# Load example data
data("edgelist0")
data("edgelist0_actors")

# Preprocess data
reh <- remify(edgelist = edgelist0,
              model = "tie",
              directed = TRUE,
              event_type = "setting",
              extend_riskset_by_type = TRUE)

# Compute statistics
```

```
stats <- remstats(reh,
                  tie_effects = ~ inertia(scaling="std", consider_type = "ignore") +
                    reciprocity(scaling="std", consider_type = "separate") +
                    same("job", attr_actors = edgelist0_actors),
                  start = 10)

# Fit model
fit <- remstimate(reh, stats)
summary(fit)

# Check diagnostics
diag_fit <- diagnostics(fit, reh, stats)
print(diag_fit)
plot(fit, reh, diag_fit)
```

`edgelist0` *Simulated relational event history*

Description

A simulated event sequence among 5 actors using the endogenous effects: inertia, reciprocity, and itp.

Usage

```
data(edgelist0)
```

Format

A dataframe with 1000 rows and 3 variables:

time time of the event

actor1 the first actor involved in the event

actor2 the second actor involved in the event

setting the setting of an event: `X` or `Y`

Source

Simulated relational event sequence among 5 actors in a social network.

Examples

```
data(edgelist0)
```

edgelist0_actors *Simulated relational event history*

Description

Actor attributes of actors in event sequence edgelist0

Usage

```
data(edgelist0_actors)
```

Format

A dataframe with 1000 rows and 3 variables:

name label of the actor

time the time of measurement of the attribute

job the job of the actor

Source

Simulated attributes of 5 actors in a social network.

Examples

```
data(edgelist0_actors)
```

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