

Package: remverse (via r-universe)

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Title A Meta-Package for Relational Event History Analysis

Version 0.1.0

Maintainer Joris Mulder <j.mulder3@tilburguniversity.edu>

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

Author Joris Mulder [aut, cre], Giuseppe Arena [aut], Roger Leenders [aut], Marlyne Meijerink-Bosman [aut], Rumana Lakdawala [aut], Fabio Generoso Vieira [aut], Mahdi Shafiee Kamalabad [ctb], Diana Karimova [ctb]

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| remverse-package | <i>remverse: A Collection of R Packages for Relational Event Modeling</i> |
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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**).

Author(s)

Maintainer: Joris Mulder <j.mulder3@tilburguniversity.edu>

Authors:

- Giuseppe Arena <g.arena@tilburguniversity.edu>
- Roger Leenders <r.t.a.j.leenders@tilburguniversity.edu>
- Marlyne Meijerink-Bosman <m.l.meijerink@tilburguniversity.edu>
- Rumana Lakdawala <r.j.lakdawala@tilburguniversity.edu>
- Fabio Generoso Vieira <f.v.generosovieira@tilburguniversity.edu>

Other contributors:

- Mahdi Shafiee Kamalabad <m.shafiee@tilburguniversity.edu> [contributor]
- Diana Karimova <d.karimova@tilburguniversity.edu> [contributor]

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 <- remestimate(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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* **dataset**

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