spatsoc - outline

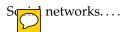
Alec Robitaille

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Summary

- 1. Social association of animals...
- 2. Analyzing GPS data sets...
- 3. spatsoc fills gap in R packages...

Introduction



Functions to group relocations spatiotemporally to generate proximity based social networks

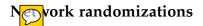
Flexibility in temporal and spatial resolution (time threshold, points, lines, HRs)

Randomization methods

Description

Spatiotemporal grouping

- group times + group points
- group lines, group home ranges



Additional functions

- build functions
- group level centroids
- nearest neighbours
- pairwise distance

Examples

Caribou group points

```
library(spatsoc)

GroupTimes(caribou, '5 minutes')

GroupPoints(caribou, distance = 50)
```

Network randomization (?)

Package development and resources

- public GitLab repository
- ISSUES for bug reports, feature requests
- CHANGELOG for package update
- website

Citation

```
TODO: citation("spatsoc")
would produce something like:
```

```
citation("data.table")
```

```
##
## To cite package 'data.table' in publications use:
##
     Matt Dowle and Arun Srinivasan (2017). data.table: Extension of
##
     `data.frame`. R package version 1.10.4-3.
##
##
     https://CRAN.R-project.org/package=data.table
##
## A BibTeX entry for LaTeX users is
##
     @Manual{,
##
       title = {data.table: Extension of `data.frame`},
##
       author = {Matt Dowle and Arun Srinivasan},
##
##
       year = \{2017\},\
##
       note = {R package version 1.10.4-3},
       url = {https://CRAN.R-project.org/package=data.table},
##
     }
##
```

Acknowledgements