

Social Network Analysis

2025-11-20

Table of contents

Tutorials and resources	1
Useful papers	1
References	2

Tutorials and resources

An introduction to social network analysis in R - igraph package vignette - <https://cran.r-project.org/web/packages/igraph/vignettes/igraph.html>

spatsoc package documentation and tutorials - <https://docs.ropensci.org/spatsoc/index.html> - Robitaille, A. L., Webber, Q. M. R., & Vander Wal, E. (2019). Conducting social network analysis with animal telemetry data: Applications and methods using spatsoc. *Methods in Ecology and Evolution*, 10(8), 1203–1211. <https://doi.org/10.1111/2041-210x.13215>

aniSNA package paper - <https://www.biorxiv.org/content/10.1101/2024.05.10.593659v1.full>
-

Useful papers

(Farine and Whitehead 2015) - Farine, D. R., & Whitehead, H. (2015). Constructing, conducting and interpreting animal social network analysis. *The Journal of Animal Ecology*, 84(5), 1144–1163. <https://doi.org/10.1111/1365-2656.12418>

(Kaur et al. 2024) - Kaur, P., Ciuti, S., Ossi, F., Cagnacci, F., Morellet, N., Loison, A., Atmeh, K., McLoughlin, P., Reinking, A. K., Beck, J. L., Ortega, A. C., Kauffman, M., Boyce, M. S., Haigh, A., David, A., Griffin, L. L., Conteddu, K., Faull, J., & Salter-Townshend, M. (2024). A protocol for assessing bias and robustness of social network metrics using GPS based radio-telemetry data. *Movement Ecology*, 12(1), 55. <https://doi.org/10.1186/s40462-024-00494-6>

References

- Farine, Damien R, and Hal Whitehead. 2015. “Constructing, conducting and interpreting animal social network analysis.” *The Journal of Animal Ecology* 84 (September): 1144–63. <https://doi.org/10.1111/1365-2656.12418>.
- Kaur, Prabhleen, Simone Ciuti, Federico Ossi, Francesca Cagnacci, Nicolas Morellet, Anne Loison, Kamal Atmeh, et al. 2024. “A protocol for assessing bias and robustness of social network metrics using GPS based radio-telemetry data.” *Movement Ecology* 12 (August): 55. <https://doi.org/10.1186/s40462-024-00494-6>.