

Network measures in animal social network analysis: Their strengths, limits, interpretations and uses

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Abstract

1. We provide an overview of the most commonly used social network measures in animal research for static networks or time-aggregated networks.
2. For each of these measures, we provide clear explanations as to what they measure, we describe their respective variants, we underline the necessity to consider these variants according to the research question addressed, and we indicate considerations that have not been taken so far.
3. We provide a guideline indicating how to use them depending on the data collection protocol, the social system studied and the research question addressed. Finally, we inform about the existent gaps and remaining challenges in the use of several variants and provide future research directions.

KEYWORDS

animal research, animal social networks, network measures, social network analysis, social network measures, static networks, time-aggregated networks

1 | INTRODUCTION

For those unfamiliar with social network analysis (SNA) terminology (highlighted in the text with asterisks), we provide a glossary in Table 1. The mathematical formulae of all the network measures discussed in this manuscript are provided in Appendix S1 and software handling their computation are in Appendix S2.

Social network analysis has become a methodological framework that allows a transdisciplinary approach (from proteomic research to animal societies and ecosystems) to study multiple questions within single systems (networks*) such as groups, populations as well as connected units (links* and nodes*) of the systems. For example, in the study of animal societies, SNA can reveal the causes and consequences of individuals' social heterogeneity (variation in social behaviour) and link the social interactions to both ecological and evolutionary processes (Sueur, Romano, Sosa, & Puga-Gonzalez, 2019). Here we describe how the use of specific network measures* can lead to study these different aspects and levels.

The surge of SNA in the last couple of decades has been accompanied by the development of a large number of analytical software and methods to calculate network measures (Borgatti,

Everett, & Freeman, 2002; Csardi & Nepusz, 2006; Sosa et al., 2018; Whitehead, 2009). This has resulted in a diversity of software that vary in the way some network measures are calculated (because they used different methods), and/or are specialized in calculations/ functions designed with a specific research purpose, here referred to as variants. Not surprisingly, non-experts in SNA may find difficult to get a clear picture of the most adequate approaches or tools for their research question.

In this manuscript, we do not aim to show the usefulness of SNA (which was already proved many times); instead we provide the reader with an extensive list of the different measures* (and their variants) that are commonly used in animal social network analysis (ASNA) for static networks or time-aggregated networks. We do so to highlight how mathematical differences in the calculation of these measurements may affect the interpretation of results, making it necessary to indicate some considerations that have not been taken so far. Our aim was to provide researchers with a guideline that helps them to: (a) interpret the different measures and their variants, (b) choose a specific measure according to the research question and (c) avoid misuses of SNA measures. Although we provide a prescriptive approach on which network measure to use, when and how

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