

CORRIGENDUM

A theoretical and empirical comparison of the temporal exponential random graph model and the stochastic actor-oriented model – Corrigendum

Philip Leifeld and Skyler J. Cranmer

doi: 10.1017/nws.2018.26, Published by Cambridge University Press, 25 April 2019

Keywords: p*; ERGM; TERGM; SAOM; temporal exponential random graph model; stochastic actor-oriented model

In this article (Leifeld and Cranmer, 2019a), three of the thirteen model terms in the TERGM in Section 4 are contaminated by observations originating from the time step that is held out for out-of-sample assessment of model fit. This circularity invalidates the model comparison in the empirical example that was used for illustration.

The authors would like to thank Block et al. (2022) for pointing to the error and refer readers to their response to Block et al. (Leifeld and Cranmer, 2022). This exchange is briefly discussed in the Editors' Note by Wasserman and Brandes (2022).

The authors would also like to note to readers that the replication data for the original study is available in the Dataverse repository (Leifeld and Cranmer, 2019b).

References

Block, P., Hollway, J., Stadtfeld, C., Koskinen, J., & Snijders, T. (2022). Circular specifications and "predicting" with information from the future: Errors in the empirical SAOM–TERGM comparison of Leifeld & Cranmer. *Network Science*, 10(1). https://doi.org/10.1017/nws.2022.6

Leifeld, P., & Cranmer, S. (2019a). A theoretical and empirical comparison of the temporal exponential random graph model and the stochastic actor-oriented model. *Network Science*, 7(1), 20–51. https://doi.org/10.1017/nws.2018.26

Leifeld, P., & Cranmer, S. (2019b). Replication Data for: A Theoretical and Empirical Comparison of the Temporal Exponential Random Graph Model and the Stochastic Actor-Oriented Model, https://doi.org/10.7910/DVN/NEM2XU, Harvard Dataverse, V1.

Leifeld, P., & Cranmer, S. (2022). The stochastic actor-oriented model is a theory as much as it is a method and must be subject to theory tests. *Network Science*, 10(1). https://doi.org/10.1017/nws.2022.7

Wasserman, S., & Brandes, U. (2022) Editors' Note. Network Science, 10(1). https://doi.org/10.1017/nws.2022.8

Cite this article: Leifeld P. and Cranmer S.J. (2022). A theoretical and empirical comparison of the temporal exponential random graph model and the stochastic actor-oriented model – Corrigendum. *Network Science* 10, 111. https://doi.org/10.1017/nws.2022.11

[©] The Author(s), 2022. Published by Cambridge University Press.