

AdSUM 2019

January 17-18, 2019

Some topics

1. Effects of actor covariates on networks.
Tom A.B. Snijders, and Alessandro Lomi (2018).
Beyond homophily: Incorporating actor variables in statistical network models.
Network Science, accepted.
http://www.stats.ox.ac.uk/~snijders/siena/Homophily_s.pdf
<https://arxiv.org/abs/1803.07172>
2. Selection Tables (also for effects of actor covariates on networks).
Script SelectionTables.r,
<http://www.stats.ox.ac.uk/~snijders/siena/SelectionTables.r>
RSiena manual, Section 13.3.
3. Influence Tables.
Script InfluenceTables.r,
<http://www.stats.ox.ac.uk/~snijders/siena/InfluenceTables.r>
RSiena manual, Section 13.4.
4. Missing Data (presented by Robert Krause).
Robert W. Krause, Mark Huisman, and Tom A.B. Snijders (2018).
Multiple imputation for longitudinal network data.
Italian Journal of Applied Statistics, 30, 33-57.
<https://doi.org/10.26398/IJAS.0030-002>
Script
<http://www.stats.ox.ac.uk/~snijders/siena/AdSUMMissingDataMD.html>

5. Multilevel SAOM with *sienaBayes*.
http://www.stats.ox.ac.uk/~snijders/siena/Workshop_sienaBayes.htm,
in particular
http://www.stats.ox.ac.uk/~snijders/siena/sienaBayes_s.pdf, and
<http://www.stats.ox.ac.uk/~snijders/siena/RscriptsienaBayes.r>
6. Assessment of the relative size of selection and influence,
visualized by pie charts and violin plots.
Christian E.G. Steglich, Tom A.B. Snijders, and Michael Pearson (2010).
Dynamic Networks and Behavior: Separating Selection from Influence.
Sociological Methodology, 40, 329-393; in particular, Section 4.6.
<http://www.stats.ox.ac.uk/~snijders/siena/SteglichSnijdersPearson2010.pdf>
Kayo Fujimoto, Tom A.B. Snijders, and Thomas W. Valente (2018).
Multivariate dynamics of one-mode and two-mode networks:
Explaining similarity in sports participation among friends.
Network Science, 6, 370-395; in particular, Section 3.9.
<http://www.stats.ox.ac.uk/~snijders/siena/FujimotoSnijdersValente2018.pdf>
see function `updateSpecification`
7. Maximum Likelihood estimation.
RSiena manual, Section 6.9.