Advanced RSiena users' workshop

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Abstract

This workshop is intended for experienced users of RSiena, the package in the statistical software system R for analyzing longitudinal data of networks, and of networks and behavior. A number of new features of RSiena, and some possibilities that may be considered advanced options, will be discussed and demonstrated.

Some of the following topics will receive attention:

- Goodness of fit checking with sienaGOF().
- Parameter interpretation; selection and influence tables.
- Multilevel analysis of network dynamics with sienaBayes().
- Dynamics of two-mode networks.
- Dynamics of multiple (multivariate) networks.
- Dynamics of networks with ordered categorical tie values.
- The Settings model for dynamics of larger networks.
- Analyzing network and behavior for continuous behavior variables.
- Other recent developments – if any; e.g., newly implemented effects.

The choice between these topics will be made dependent also on interests of the participants.

Participants are invited to email the organizer (tom.snijders "at" nuffield.ox.ac.uk) in the period May 30 – June 3 to indicate differential preferences for these (or other!) topics, since it will be impossible to treat all of them in depth.

Participants are requested to check the SIENA website (Courses-activities tab) in the week before the workshop to download the workshop materials. Participants might consider bringing their own laptop with R and RSiena installed, and these materials available, such that some steps of the data analysis can be followed hands-on.

Prerequisites: experience with using RSiena.

SIENA website: http://www.stats.ox.ac.uk/˜snijders/siena

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