

## Assignments $\mathcal{N}^o$ 8

**released:** 17.12.2014      **due:** 07.01.2015 at 12:00h

### **Task 1: Comparing SAOM with TERGM (freestyle)      10 points**

Discuss similarities and differences between stochastic actor-oriented models (SAOM) and temporal exponential random graph models (TERGM). For instance,

- What are common/different assumptions for the two model classes?
- Can you express or test some hypothetical network effects in one model class but not in the other?
- Does it have the same interpretation, if you find a significant effect, e. g., transitivity, in both model classes?
- You might also list any formal or informal, practical or theoretical similarities or differences that you can identify.
- You can also get points for identifying well-formulated and relevant questions about similarities and differences—even if you cannot answer them.

For getting the 10 points you should at least submit about one page but feel free to write more if you want.

MERRY CHRISTMAS AND A HAPPY NEW YEAR!