

Social Network Analysis Lab

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Solutions to the exercises are provided by the teacher during classes.

REQUIREMENTS

Please have Pajek and Gephi installed

- **Pajek** > <http://mrvar.fdv.uni-lj.si/pajek/>
- **Gephi** > <http://gephi.org/>
Gephi requires an updated version of **Java**
<http://www.java.com/en/download/>

Please use Microsoft Excel or Open Office to open the attributes file.

EXERCISE 4 – FREE SNA ANALYSIS

The analyst's ultimate goal is to make sense of the data available

Consider the following files:

- An excel file with nodes' attributes;
- A friendship network (arc weights range from 1 to 5, where 5 is best friend);
- Work advice relationships (arcs are weighted based on the frequency of interaction. 1 is less than once a month, 5 is multiple times per week);
- A network which indicates the pairs of people who met, cooked together and had dinner with what they cooked, implying that they both eat all the prepared meal (arc are weighted based on the frequency of interaction).

The student is asked to provide an analysis as detailed as possible (visualization and basic measurements for the offered networks, associations between nodes and attributes, relationships among different networks, etc.). The solution for this type of exercise is not unique and the analysis can be approached from different perspectives.

The student gives the results of the analysis together with a summary of the main considerations that he or she has managed to extract from the data. Be creative!