

Network analysis with Pajek

Short description:

This is a short (10 hours) introductory course to Network analysis with freely available computer program Pajek. It will include both theoretical concepts and practical exercise. The following topics will be covered: Introduction to networks, network analysis and Pajek software; Explorations and decompositions of networks, identifying important vertices, Community detection, Blockmodeling. Due to the short nature of the course, all topics will be covered on a very introductory level, but nevertheless, after the course, students will be able to perform basic network analysis.

Prerequisites:

- No prior knowledge is assumed
- For the practical part, students should have computers with Pajek installed. Pajek can be downloaded from: <http://mrvar.fdv.uni-lj.si/pajek/>
- Pajek is a Windows program. For instructions on installing it on running it on linux or mac see:
 - [Running Pajek on MAC](#)
 - [Running Pajek on Linux](#)
 - [Running Pajek on Linux64](#)

Book:

de Nooy, W., Mrvar, A., and Batagelj, V. (2018): Exploratory Social Network Analysis with Pajek: Revised and Expanded Edition for Updated Software. Third Edition. New York: Cambridge University Press. <http://mrvar.fdv.uni-lj.si/pajek/be3.htm>

Teacher:

Aleš Žiberna is an associate professor at the Faculty of Social Sciences, University of Ljubljana where he lectures in the fields of statistics, multivariate analysis and computer science. His main research interests are multivariate data analysis, missing data and network analysis. He is the developer of the blockmodeling package for the R statistical software. He also coordinates the module "Statistics for Social Sciences" of the Doctoral program in Statistics and of the Master's program in Applied statistics, both at the University of Ljubljana, where he also teaches courses from the field of statistics and multivariate analysis. He also takes part in projects from other disciplines as data analyst or statistical consultant.