Level: bachelor

Course title: Social Networks (I388)

Status: elective

ECTS: 7

Requirements: none

Learning objectives
The objective of the course is to introduce students to the theoretical concepts underlying social network analysis, as well as the techniques and tools for analysis of large-scale social networks.

Learning outcomes
Minimal: Students should be able to apply the basic social network analysis techniques using existing tools to an illustrative example of a social network.
Desirable: Students should demonstrate understanding of theoretical concepts and algorithms used in social network analysis, as well as their practical application in the analysis of large-scale social networks.

Syllabus
Theoretical instruction

Practical instruction
Introduction to social network analysis and visualization tools (Pajek, GUESS, Gephi) and libraries (Jung, iGraph). Analysis of study examples using the mentioned tools and libraries.

Weekly teaching load

<table>
<thead>
<tr>
<th>Lectures: 2</th>
<th>Exercises: 2</th>
<th>Other forms of teaching: 0</th>
<th>Student research: 0</th>
</tr>
</thead>
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Other: