

Social Networks

Introduction

Instructors: Markus Strohmaier, Johannes Wachs

“Python package for the creation, manipulation and study of the structure, dynamics and functions of complex networks” (<https://www.cl.cam.ac.uk/~cm542/teaching/2011/stna-pdfs/stna-lecture11.pdf>)

A Python library

Open source

Easy to use

For the analysis of large-scale networks (>100M nodes/edges) you will require faster approaches.

Networks repositories

- [Network Data Repository](#)
- [Stanford Large Network Dataset Collection](#)
- [UCI Network Data Repository](#)
- [ASU social computing data repository](#)
- [Indiana University CNetS data](#)
- [The Koblenz Network Collection](#)
- [SocioPatterns Datasets](#)
- [Ucinet Datasets](#)
- [Pajek Datasets](#)

Introduction

<https://networkx.github.io/documentation/stable/index.html>

<https://networkx.github.io/documentation/stable/reference/introduction.html>

Home Assignment 1

Handed out April 3, 2019

Due April 18, 2019 – 23:59.

For the following tasks use the network of jazz collaborations provided in edgelist format (jazz.txt)

Find out more about the dataset by reading:

Community Structure in Jazz: P.Gleiser and L. Danon, Adv. Complex Syst.6, 565 (2003)

<https://arxiv.org/abs/cond-mat/0307434>

Social Networks

Thanks!