CS 429/529 Assignment 1

Assignment Release Date: Thursday, September 29, 2022
Assignment Submissions Due: Thursday, October 6, 2022 (Due 23:59 Istanbul Timezone)
Assignment Submission: Submit on Moodle
Questions: gozde.yazici@bilkent.edu.tr, miraykas@cs.bilkent.edu.tr

Important Notes Before You Start:

- Your homework assignment file(s) name should include your full name (first and last name) and the assignment number. Your submission should be submitted as a single compressed file on Moodle using the following name template:
- **FirstName_LastName_A_#no.zip**
- Homework assignments are to be done individually, partnering on this homework assignment is not allowed.
- Penalty points: Submissions not following the requested file naming/format will receive a 10 point cut.

Exercise 1: Software Installation and Readiness (20%)

Install and familiarize yourself with a generic social network analysis tool of your choice (e.g. Gephi, ORA, or something equivalent):

1) (10%) Describe why you chose this particular software and which features of it made it attractive/usable for you as compared to the others.
2) (10%) Briefly explain the steps you follow to set up the tool.

Exercise 2: Software Installation and Readiness (80%)

1) (40%) Using VOSviewer, download data for a scientific journal in your area of interest or a scientist (Do not use Prof. Korpeoglu as your author of choice since this was covered as an example in the class.)
    a) Correct and clean up your data.
    b) Generate/export both map and network files as needed.
    c) Include your data files and visualization in your submission

2) (40%) Import the network data generated in Step-1 of this exercise into the more generic tool you have installed in Exercise-1 such as Gephi, ORA, or another tool of your choice.
    a) Include your converted data files in your submission.
    b) Comment on the shape/structure of the network you are observing.
    c) Comment on what was expected/unexpected, what was surprising for you to see.
    d) Identify the most important two nodes in the network, and explain why they appear as important.