## Assignment # 3: Random Graphs

October 8, 2020

## Advice:

- 1. The file 2016-05-26.tgz contains binary NetFlow data. You can convert them into .csv files on Linux using flow-tools. They can be installed on Ubuntu 18.04 LTS by
- 1 sudo apt-get install flow-tools

They are not available on Ubuntu 20.04 LTS and newer Linux distros because they require Python 2 to work. If you have them, use

1 export-flow -f2 < INPUTNAME > OUTPUTNAME.csv

Otherwise, I created a new archive exported-flows.zip, you can use it and just skip first step of the assignment.

- 2. The amount of transported packets is in the column dpkts (it's the 4th one indexing from 0).
- 3. The source address in in the column srcaddr (10th).
- 4. The destination address is in the column dstaddr (11th).
- 5. It is a netflow with TCP protocol if its 17th column is equal to 6.
- 6. It is a netflow with UDP protocol if its 17th column is equal to 17.