**Homework I Link Prediction instructions**

1. The implementation of link prediction, you can work on Python, C++, Java, R, or Other programming language to analyze the sparsification of links from data, by applied various methods (technique are not taught in class is welcome).
2. The ready-to-use class, library function or programming package can use just to find variable parameters, but not allow to apply ready-to-use method to find the link prediction (e.g. you can using the iGraph package to find the shortest path between nodes, but not using iGraph predict\_edges() function in programming.)
3. Homework Scoring are including with programming performance 70% and report 30%. The programming performance is determining by ranking from exceed the F-1 score (baseline) get 70 points to the highest score in the class will get 100 points.
4. The submission of homework and naming by “student ID\_name” (e.g. M01234567\_Harry\_Potter)
5. The link for upload the homework I will be announce soon.
6. The report outline would be cover by a. The Introduction, concept or algorithms of your methods. b. The Difficulties encountered that you have facing in data analysis and prediction, you also emphasize the methods that you try to resolve and its results. c. The conclusion and important point, that you’ve learn from this homework. d. The source code execution instructions, that including with programing language platform, library, and environment to execute your code.
7. The homework is due on xx/xx/xxxx
8. If you have doubts or question on which programming functions can be use or cannot use, please feel free to send your question to TAs team.

Following is a link of dataset:

<https://drive.google.com/open?id=1JOoraYXJl7YBZUGrSaeDtyvxB2J7J-CB>