

## **How to generate/replicate Suppl. Table 6:**

**Suppl. Table 6. Statistics for the Yeast DIP network used in CH-AFM comparison.**

### **1. Running the code**

To run the code, execute the function *run\_suppl\_table6* with one of these options:

- Option 1: 1 to generate item with existing results. Usage: *run\_suppl\_table6(1)*.
- Option 2: 2 to recreate item from original data, involving all required computations. Usage: *run\_suppl\_table6(2)*.

Here is an overview of the execution of each option. The execution times reported below are measured executing the code in Windows 10 Pro with 256 GB RAM, and AMD Ryzen Threadripper PRO 3995WX 64-Cores CPU with 2.70 GHz. The software environment is MATLAB 2019a.

Option 1: Total execution time **negligible**

Runs *create\_suppl\_table6* to generate item with existing results located in data folder. In data folder, there is:

- statistics: contains Excel sheets of the topological measures values of the original network Yeast DIP. The subfolder “results” contains the topological measures computed for the original network of Yeast DIP saved in Matlab.
- script: contains *create\_suppl\_table6* script.

Option 2: Total execution time **negligible**

All the results of the following scripts are stored in the directory *data\_replicated*. Below are the different steps to implement the computation:

- In order to download the data, follow the instructions reported in the file *instructions to download the data* located inside the folder “data”.

- *create\_Scere\_DIP\_net* : create the adjacency matrix for Yeast DIP network. Outputs in “matrix”. Total execution time: ~**13 s**.
- *run\_compute\_statistics\_original*: computes several topological measures based on original network of Yeast DIP. Outputs in “statistics/results”. Total execution time: ~**5 s**.
- *create\_suppl\_table6*: create Suppl. Table 6. Total execution time: **negligible time**.