Mini-Project

To practice applying analytical tools such as robustness measures, distance, importance, and community detection on real-world cases, we propose analyzing a list of networks from diverse fields, including online social networks, biology, and transportation.

The task involves conducting an in-depth analysis of one of these networks using available computational tools, such as Gephi or NetworkX, while applying the aforementioned measures and techniques. It is also highly encouraged to present conclusions and implications derived from the analysis.

The work must be completed in pairs and presented in the form of slides, followed by an oral presentation at the end of the semester.

Datasets

https://networkrepository.com/bio-grid-worm.php
https://networkrepository.com/bio-grid-yeast.php
https://networkrepository.com/econ-poli.php
https://networkrepository.com/econ-orani678.php
https://networkrepository.com/inf-power.php
https://networkrepository.com/inf-openflights.php
https://networkrepository.com/road-minnesota.php
https://networkrepository.com/rt-lebanon.php
https://networkrepository.com/rt-libya.php
https://networkrepository.com/soc.php
https://networkrepository.com/socfb-Brandeis99.php
https://networkrepository.com/socfb-MIT.php
https://networkrepository.com/web-EPA.php
https://networkrepository.com/web-spam.php