

Statistical Consulting Unit

Workshops/Training courses

Spring 2023

Workshop #4

Title: Graph Analytics and Visualization

Statistical Software: yEd, Gephi

Requirements: None

Instructor: Dr. Gurdal Ertek

Target Group: Any participant junior (3rd year undergraduate) and above (including Master's and Doctorate levels)

Date: 5 Feb. – 11 Feb.

Period: 1 day, 4 hours

Platform: Face to face Meeting, with interactive session; participants must bring laptops.

Inclusive of Scientific Materials: PowerPoint Slide Presentations, Practice-Oriented Research Papers, Sample Graph Data, and E-Certificate.

Workshop Fee: 500 AED

Contact US: statconsult@uaeu.ac.ae

Description:

This graph analytics training provides a comprehensive overview of the various techniques and approaches utilized to effectively analyze and interpret graph data. It offers participants the opportunity to develop an in-depth understanding of the fundamentals of graph analysis. Learners will gain insights into advanced graph analytics concepts such as community detection and centrality measures. The hands-on practice session with leading graph analytics software will allow the learners to practice graph analytics during the training.

Topics Covered:

Day 1:

1. Why graphs
2. Visualization & graphs in business
3. Finding anomalies
4. Managing networks and supply chains
5. Identifying risk patterns
6. Optimizing asset mix
7. Social network analysis
8. Graph analytics software: yEd
9. Graph analytics software: Gephi

10. Case Studies
11. Interactive hands-on practice session
12. Assessment