

CS 7123 Research Seminar

Due Date: check learn.utsa.edu

Assignment 6: A toy research problem...

Suppose you are working on the following (toy) research problem: *How to find/list and/or count triangles in a graph?*

Do some literature review and learn more about the problem of finding triangles in a graph. You are expected to study at least the papers in **Assign-06-papers** folder which is under Assignments in the class webpage. Also attached in BB Learn...

See what assumptions are made, how researchers look at the problem from different perspectives, what are major ideas and contributions, how related papers criticize the proposed solutions in each other, how/why they consider existing solutions are not enough, why more research is needed, etc.,

This assignment consists of two parts:

[PRESENTATION 10pt] Everybody must read multiple papers (at least the given ones), but we will assign one specific paper to each student to present in class. Each student will have 30-min to talk about the problem at the high level and discuss the existing solutions and issues in them but then focus on the technical papers assigned to him/her. It will be also great if you can come up with your own criticisms or ideas to solve this problem or address some concerns in the existing solutions...

[WRITTING 10pt] Then you will be asked to write an introduction and a related work section for a paper that will formally define this problem and present related literature on it.... [Optional: If you have a proposed idea you can also include that as a separate section for bonus credit.]

Note: Students working on specific research problems does not need to work on the research problem stated above, but they will work on their research problem and similarly do presentation and write a paper.

Please name your finally submitted file as

Lastname-Firstname-06.pdf