
CSCE 2211 Term Paper Spring 2024

Guidelines

The term paper is **NOT OPTIONAL**. The paper grade represents 10% of the total course grade.

A group **of 1 - 4 members** should submit a paper on a subject of their own choice but related to the course. The paper aims at presenting a **literature survey of methods or algorithms** in the chosen topic with **exposure of applications as well as analysis and critique** of the methods.

The paper is only to present a survey of some published works on the paper topic and its applications with analysis and critique of the method(s). **You are not required to do any implementations or actual data processing of your own.**

Guidelines:

- The paper is intended to be a teamwork.
- **The paper topic should be different from the topic of the term project.**
- A group **of 1 - 4 members** is to write a paper of 3-6 pages on a subject of their own choice and to submit the paper by the deadline. A guideline for the format of the paper to be submitted is attached.
- All group members **must be students from the same section.**
- The paper group can be the same as that presenting the term project.
- Names of group members should be sent by e-mail to the course TA Eng. Mohamed Hany: mohamed.ihany@aucegypt.edu by **Monday April 8, 2024. No allowance to change the names of group members once they have been sent to Eng. Hany.**
- **Names** of group members **must be submitted** in the final report with **no allowance to change the names from those sent before.**
- The final paper manuscript should be submitted on **blackboard.**
- **Final date** of submission of the complete paper is **Thursday May 9, 2024.**
- There will be NO late policy for the submission of the paper. **No submissions will be accepted after the due date.**

Academic Integrity

Students are expected to commit to the principles of academic integrity. Any plagiarism detected will result in zero grade for the project.

The team may choose to present a paper on one of the suggested topics given on the next page. The team may also choose to present a paper on a different topic. In this case, the topic should exhibit the use of Data Structures and Algorithms relevant to the course and would serve as a useful survey.

Suggested Topics for the Paper

- String Matching Algorithms
- Self-Balancing Trees and their Applications
- Minimum Cost Spanning Trees for Graphs
- Shortest Path problems in Graphs
- Social networking and Graph Algorithms
- Google Maps
- The A* Algorithm
- Cluster Analysis
- Sudoku by Backtracking
- Knight's Tour Problem
- N-Queens Problem
- The Travelling Salesman Problem
- Quantum Computing
- Rubik's Cube Algorithms
- Minimax Algorithms
- Tries

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Suggested Paper Format

This is just a suggested format. You have the freedom to change or modify it in a way that suits the topic and content of the paper.

Paper Title

Authors Name/s
Course Number & Section
Department of Computer Science and Engineering, AUC

Abstract:

This is just a suggested format. You have the freedom to change or modify it in a way that suits the topic and content of the paper.

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Keywords:

1. Introduction (Introduce the topic of the paper here)

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2. Motivation (Explain why this topic is interesting to you)

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3. Topic or Problem Definition (Present here a more detailed definition of the topic or problem)

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4. Literature Survey of Methodologies or Algorithms

(From published work, give a survey of Methodologies or Algorithms used in treating the problem)

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5. Examples / Applications (From the Literature)

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6. Analysis and Critique of Methodologies / Algorithms

(Your own views and from the Literature)

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7. Conclusions

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Acknowledgements

(Acknowledge other people who helped you in producing the paper)

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References

(List here the references you used to produce the paper)

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