CIS 663 Biometrics - 70630

Project / Paper and Schedule

Option 1: Research Project

- Design and build a biometric system in the language/technology of your choosing.

Basic Requirements

- 3,000 word minimum experimental paper (about 6 pages).

- Should include background, experimental design, experimental results, related research, etc.

- Code/datasets will need to be submitted as part of the project.

Sections

- Title (Paper name and authors)

- Abstract

- Introduction

- Previous work

- Experiment Design

- Results

- Conclusion

Option 2: Survey Paper

- Write a technical survey of a specific topic in biometrics.

Basic Requirements:

- 8,000 word minimum (about 15 pages).

- At minimum 12 citations from peer reviewed sources (not textbooks, not news articles).

Sections

- Title (Paper name and authors)

- Abstract

- Introduction

- Paper survey

- Future work

- Summary

Grade Breakdown

Proposal (10%)

- 5% - Milestones: There are 5 of these, each one is worth 1% of your grade. See below
- 5% - Proposal document. Address any issues mentioned in the milestone feedback and submit proposal document by combining sections and a statement of expected results

Final paper (25%)

- 10% - Correctness. This includes the correctness of your implementation, use of existing library, interpretation/use of data, pre-processing, experimental design, interpretation of the result. This includes the details that is needed to replicate your result or research. Missing details will result in deductions in this category. When in doubt, ask me.
- 5% - Paper writing and format. Paper should have a structure (start with an abstract, introduction, and end with conclusion and future research areas.) Citations should be done properly. Terms need to be defined before being used.
- 5% - Presentation. See the next section for breakdown.
- 5% - Meeting all requirements – this should be stated in your proposal.

Presentation

You will be graded as a presenter and also as an audience.
- As a presenter, you should:
  - Present your research in a way the others can understand without the domain specific background (25%).
  - Clearly state the exact scope and contribution of your research (15%) Fully understand your problem and result. (15%)
  - Do all of this in 20 minutes. (5%)
  - Answer questions during QnA (it's recommended to have the members who are not presenting monitor the question pod and get ready to answer them) - note that you don't need to be able to answer all the questions. Some questions can be outside of your scope, in which case you can answer in terms of HOW you might attempt to answer such questions. (20%)
- As an audience , you should:
  - Understand what's being presented. Do not interrupt the presentation. Write your questions as it comes up in the question pod for QnA (10%)
  - Write meaningful feedback in the feedback pod - your feedback should reflect the fact that you understood their material. (10%)

Milestones

Milestone 1: Form your team (two to three people, submit a text document)

Milestone 2: Problem domain and data source (submit a one-pager)

Milestone 3: Assign duties for the main paper and state your contribution (submit a one-pager)

Milestone 4: Iteration on proposal
Milestone 5: Preliminary Results: Draft of majority of the paper

Schedule

Live Session Week	Assigned On	Due On
Week 1, Jul 7	Milestone 1	
Week 2, Jul 14	Milestone 2	Milestone 1
Week 3, Jul 21	Assignment 1, Milestone 3	Milestone 2
Week 4, Jul 28	Assignment 2	Assignment 1, Milestone 3
Week 5, Aug 4		Assignment 2
Week 6, Aug 11	Milestone 4	Proposal (Assignment 3)
Week 7, Aug 18	Assignment 4	Milestone 4
Week 8, Aug 25	Milestone 5	Assignment 4
Week 9, Sep 1	Assignment 5	Milestone 5
Week 10, Sep 8		Assignment 5
Week 11, Sep 15		Presentations, final paper and other deliverables