

This gives the rubric to be used for grading individual papers and the final report. Each line item (number by itself or letter sub-heading) is worth 1 point, for a total of 20 points. This will be converted to a 4.0 (A=4) scale.

Abstract

1. The paper is written as a journal article and NOT as a homework assignment.
2. The abstract provides an executive summary (each one in its own sentence).
 - a. Problem is summarized.
 - b. Basic methodology is provided (KNN, decision tree, etc.)
 - c. Results are summarized.
 - d. Why this is important and worth reading (discussion summary).

Introduction

3. The decision problem being solved is fully described.
4. How the decision will be used is provided.
5. Data set is described (here, not in other sections).
6. Literature review is provided. This is usually done in terms of what others have done before you in this field so it is clear that you are not repeating their efforts. For this class, feel free to include more references of other papers that talk about either the method you use or the problem you are solving. This could mean that you intent to try to get better results then them, or apply the same method used for one decision to another problem.
7. An overview of the rest of the paper (sections are defined) is provided.

Methodology

8. Description of approach is provided.
9. Algorithm is described or a reference is provided.
10. Equations describing the approach are explained, not just presented, but explained.
11. Libraries and other software tools are defined.
12. Parameters of the libraries are discussed. Why did you use this value over that one, etc.
13. How results are compared or validated is provided. This needs to describe the method (take average, compute StDev, etc. and compare to ???). How you know results are good is as important as how you got the results.

Results

14. Describe computational results; do the answers you got make sense?
15. Describe how a decision would be made given the results; explain cross-validation results, etc.
16. Describe what the results mean in relationship to other data that was presented in the intro.

Discussion

17. Why are the results what they are, are they what were expected, etc.
18. Why is this work important?
19. What could be done in the future to make things better, or how could this work be extended to cover more data, etc.

Ack & Citations

20. List all acknowledgments and provide citations for all references in the paper. These should be hyper-linked so a reader can click on the citation [n] and go to the reference in the bibliography.