Anatomy of a Paper

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Main Parts

- 1. Abstract
- 2. Introduction
- 3. Literature Survey
- 4. Main Idea
- 5. Experiments
- 6. Conclusion
- 7. References

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Part I – Abstract (One paragraph)

- 1. Problem tackled
- 2. Main idea & novelty of our approach
- 3. Experiment conducted
- 4. Results obtained

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Part II - Introduction

- 1. Definition of problem & its place in a hierarchy
- 2. Previous work done on this problem

Sort of Literature Survey Maybe discussed from several angles

- 3. Difference of our approach from other people's approaches & key novel ideas of our approach. Placement of our technique in a hierarchy.
- 4. A paragraph on how the rest of the paper is divided

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Part III – Extensive Literature Survey

- 1. A paragraph for each type of old techniques and their criticism
- 2. May contain survey of several different topics

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Part IV – Main Idea

- 1. Detailed development & explanation of the main idea
- 2. Algorithm and flowchart
- 3. One sub-section for each novel idea (may contain examples)
- 4. Sometimes two or more sections may be needed to convey the main idea

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Part V - Experiments

- 1. Detailed presentation & discussion of metrics of performance measurement
- 2. Explanation and discussion of data sets (used)
- 3. List of previous algorithms with which the current approach is compared (basis and reasons for selection of comparison algorithms)

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Part V - Experiments

- 4. General explanation of experiments and their methodology
- 5. One sub-section for each experiment (setting of parameters, results in tabular and graphical forms, discussion of results)
- 6. Sometimes two or more sections may be needed for the experiments

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Part VI - Conclusion

- 1. Summary of the main idea and results
- 2. Usefulness of such work
- 3. Future areas of expansion and some hint of how this algorithm/technique allows such expansions

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Part VII - References

- 1. Should be extensive, but relevant (30 to 40 are minimum)
- 2. Should be consistent in form
- 3. Care should be taken that each reference is actually cited somewhere in the text and vice versa