Summary Report

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This is a summary report of the findings while reading the examples of the semester project for class COSC526. The general structure and the common things across the extended abstracts and the posters are presented. Also, the similarities and differences between the contents of the abstracts and the posters are discussed.

General structure of the extended abstract

The extended abstracts have some sort of general structure. Following is the list of the general topics discussed in the extended abstract.

- A short paragraph of the abstract
- Motivation or the introduction of the problem to be solved
- Description of the data set
- Methodology used to analyze the data
- Results and discussions
- Conclusion and future works
- References

General structure of the poster

All posters also have a general structure. Following is the list of the general topics addressed in the posters.

- Motivation/research goal or the introduction of the problem
- Data set and the data processing
- Data analysis method(workflow)
- Extended Results and discussion
- Conclusion and future works
- References

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Common Components across abstracts and posters

While going through the extended abstracts and posters, there are a bunch of sections that are in common in both cases.

Both started with some sort of motivation or introduction to the possible problem to be solved. Also, they highlighted the significance of the data at the very beginning of each write-up. Then both described the data set: the source of the data, the type and how the data were collected, the contents of the data set (number of rows/columns, objects, or points), and what information contains in the dataset. For instance, in the reference [1], the data was about dietary and nutrition intake in the population of the US and the dataset consists of demographics, vital signs, and nutrient intakes.

Another thing that is common across them is the methodology. They described the procedure (workflow) they used to analyze the data and the platform they used, for example in the reference [2] PySpark and MLLib was used and it was described in both abstract and posters. The extended abstract and posters also share the result and discussion part. And, at last, the conclusion, future directions, and the references were also the common sections.

Key differences between abstract and posters

Extended abstracts are more descriptive but posters focused mainly on visualization. The methodology is described more pictorially in posters than in abstracts. Abstracts outlined some key outcomes along with one or two figures but the poster includes a more graphical representation of the results.

Role of pictures in abstracts and posters

The pictures in the abstract are minimal; they are some sort of supplement to the text to help readers better understand the text written. The common thing all across the abstract is they used one or two pictures to describe the methodology and a couple of pictures to describe the results. But in the case of the posters, pictures are the main components. The figures which are more self-explanatory will go in the posters while the figures which need explanations are in the extended abstract. For example in the reference [3], there are only three pictures which were used mainly to make the description more visual but in the poster, the message was conveyed mostly through pictures with very little text.

Role of text in abstracts and posters

The text in the posters is less descriptive than in abstracts. The text in posters just highlights the section in few sentences but the same thing is more elaborated in the extended abstracts.

1. REFERENCES

[1] M. Bhattacharya and D. Roychowdhury. Using machine learning to build a scalable tool to support dieticians to fight chronic diseases.

[2] D. Chapp and S. Kasturi. Leveraging spark and docker for scalable, reproducible analysis of railroad defects.

[3] M. T. Michael Wyatt. Parameter tuning of dbscan for medical data and diabetes diagnosis.