WeeK 2 Technical Reading and Writing

CSE6349

Literature Review

- Quality venues
- Focused areas/topics
 - Many articles addressing the same problem
 - Different approaches, methodologies
 - Results
 - Recognize
 - Contributions
 - Duplications
 - Flaws and errors
- Technical contributions
- Writing and presentation style

Title and keywords

- Title
 - Must reflect the main theme of the paper
 - E.g., Structured Streams: a New Transport
 Abstraction
- Keywords
 - Topics used
 - e.g., Wireless networks, Multimedia, Congestion,
 Feedback, Energy Conservation, Nash Equilibria

Abstract

- Abstract of the paper
 - Summary in abstract form
 - comprehensible to a general (at least a CSE) reader
- Simple and crisp
 - The language should be direct
 - Don't use 'I', 'We', etc.
- Independent of the paper
- Content
 - Problem description
 - Existing state of the art literature that addresses the problem
 - Uniqueness and novelty of the approach used by the authors
 - Methods used
 - Results obtained

Introduction

- Elaborate on the problem addressed
 - State of the art
 - Technology
 - Research
- Motivating Scenario
 - Capture the challenges and issues
- Brief overview of related work
- Brief overview of methods used and results obtained
- Highlight contributions
- Emphasize uniqueness
- Significance of results
- Impact on applications

Conclusions

- What was the problem
- How was it addressed?
 - Methods,
- Comment on the results
 - Highlight important results and outcomes
 - Different from those by others
 - Mention problems encountered
 - Work not done and future work
- Future work
 - The work will be extended further
 - What directions
- Impact

Introduction and conclusion

The body of the paper is packaged in ...

Remainder

- Background or Related work
- 3 -4 sections
 - Architecture, Scheme
 - Algorithm, Analysis
 - Evaluation
- Results
 - Simulation
 - Implementation
- Discussion

Background

- Typically 20% of the paper
- The author/s is aware of who is doing what in the area
 - 4 to 5 papers in detail
 - More papers may be mentioned or categorized
- The author's background in the area of research is solid
- The author demonstrates thorough knowledge of the area of research
- Clearly demonstrates the difference between what has been done and what is presented in the current paper
 - Unique, novel, better, superior,
- Cite and refer articles
 - Liberal in praising others' good work

Projects