Research Methods in computer science
Spring 2024

Lecture 17

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March 20, 2024
Agenda

Conference updates
Paper and poster review
Idea generation
HW8
How to Review a Paper? - Considerations

Novelty
Importance
Generality
Rigor
Insights
Typical Template

Summary
Strengths
Weaknesses
Detailed Comments

Justification for these sections?
Writing review for systems conferences by Roscoe

IJCAI review selected slides by Blockeel, Davis
Poster YouTube video
Poster Review

• Largely similar to paper review in terms of existence of different components

• Differences
  – Visual design
  – Oral presentation
Paper review software
Generating Research Ideas

“Standing on the shoulders of giants”

Most ideas may not be new

New may be subjective

Adding a layer to an existing deep learning architecture

When is it new?
When is it not new?
Idea Generator Heuristics

Combination / Hybrid techniques
  From the same discipline
    (e.g., ....)
  From a different discipline
    (e.g., ....)

Address Gap/limitation (Incremental?)
  Handle some cases that were not handled
  Improve some (partial) aspects of dimension

Apply different datasets / settings / contexts
In-class group activity

Pick a paper

Generate at least two derivate ideas

Present: original and derivate ideas
HW8

Poster evaluation

Due at 4pm. No late submissions.