

# Research Methods in computer science

Spring 2024

Lecture 17

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# 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.