Research Methods in computer science
Spring 2023

Lecture 12

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Agenda

Conference
Hypothesis/Metrics
HW5
Conferences are gatherings of scientists...

Why do we need them?
Activities in a Conference

Keynote
Paper presentations
Panels
Poster and demo
Competitions
Open mic sessions
Conference Organization

Different roles

- General Chair
- Finance Chair
- Arrangement Chair
- Technology Chair
- Program Chair
- Publication Chair
- Technical Program Committee
- Many other roles

Schedule for activities
Technical Program Committee

Review papers

Types of discussions and meetings
Journal Organization

Paper evaluation
  Editor in chief
  Associate editors
  Reviewers

Limited physical logistics requirement compared to a conference
We looked at the websites of some conferences and journals to understand how they are organized.
We formed the organization and technical program committee for the conference. We also decided tentative schedule for the conference.
Experiments

What experiments are useful?
Critical for the main arguments of the paper

What experiments are not useful?
Pointless experiments that generate pointless numbers, graphs, and tables
Types of Experiments

From the “context” perspective
   Controlled
   Uncontrolled

There are other perspectives to be covered in future lectures
Group Activity

Experiment Design

Metric Selection
A new algorithm that translates English text to Spanish.
Group 2

A new wireless networking technology.
Group 3

Impact of doing court proceedings in metaverse.

https://www.reuters.com/world/americas[colombia-court-moves-metaverse-host-hearing-2023-02-24/}
Paper Introduction

What is the problem?

Why is it interesting and important?

Why is it hard? (E.g., why do naive approaches fail?)

Why hasn't it been solved before? (Or, what's wrong with previous proposed solutions? How does mine differ?)

What are the key components of my approach and results? Also include any specific limitations.

Summary of results and contributions.
HW6

Introduction

Your writeup should answer all the questions we discussed in the stated sequence.