Algorithmic Human-Robot Interaction

Goal Interpretation and Expression System Design Workshop Part III

CSCI 7000

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University of Colorado Boulder



No Class Next Week

Classes cancelled 3/12 and 3/14 due to the HRI Conference

Format for a Research Paper

Abstract

One paragraph summary of the work, insight, and main result.

Introduction

 Motivate your problem, state why is this hard, state what a solution gives us, end with short bulleted list of main contributions (usually 1-3 bullets, 1 sentence each)

Background and Related Work

• What have other people done in this space? 1-2 sentence summaries of a handful of related papers tackling similar problems. Identify technical gap: what's missing?

Main Contribution

Describe your algorithm and key insights into solving the problem

Evaluation

How do you know if your solution works? How is it better than existing approaches?

Conclusion and Future Work

• Summarize your paper in a paragraph, identify some next steps / problems you didn't solve.

Quiz

(10 Minutes)

Papers for Today: Interpreting and Expressing Goals

Learning Robot Objectives from Physical Human Interaction

Bajcsy et al.

Pro: Lakhan Kamireddy

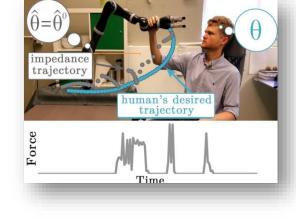
Con: Chandan Naik

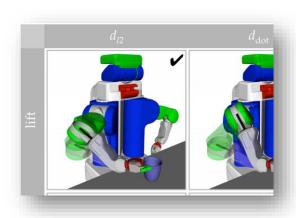
Expressing Robot Incapability

Kwon et al.

Pro: Dhanendra Soni

Con: Shohei Wakayama





System Design Workshop (Part III)

Finish defining the major components of your project If already done, begin designing your evaluation!

Deliverable: Block diagram with details for each component (Powerpoint slide deck is generally the easiest format)

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