CS 598: Representations in Robotics

GUIDELINES FOR PAPER PRESENTATIONS

Written part

Distribute copies to the class of the following:

• Write one paragraph that summarizes the main ideas of the paper \textit{in your own words}. It is especially good if you can use terms from class. Where does it fit?

• Provide any notation that will be used in your talk. Try to use terms from class.

• Provide a few questions to help kick off the brainstorming session.

Presentation part

We will spend the entire 75 minutes of class time on each paper. Try to divide your time into the following parts:

1. (30 minutes) Summarize the paper. It is probably best to use a laptop projector or hand out slides or notes.

2. (20 minutes) Describe the methods in terms of concepts from class: What are the state space, observation spaces, sensor mappings, information states? Describe how the external world is represented and how that fits into the lectures.

3. (25 minutes) Brainstorming session. Ask interesting questions to the class. For example, what alternative physical sensor implementations are possible for the method? What kind of analysis is possible but not done by the authors? Lead a discussion on how to adapt the models into something novel and interesting new problems. What variations of the problem are possible? Are the representations clear, or are they opaque?