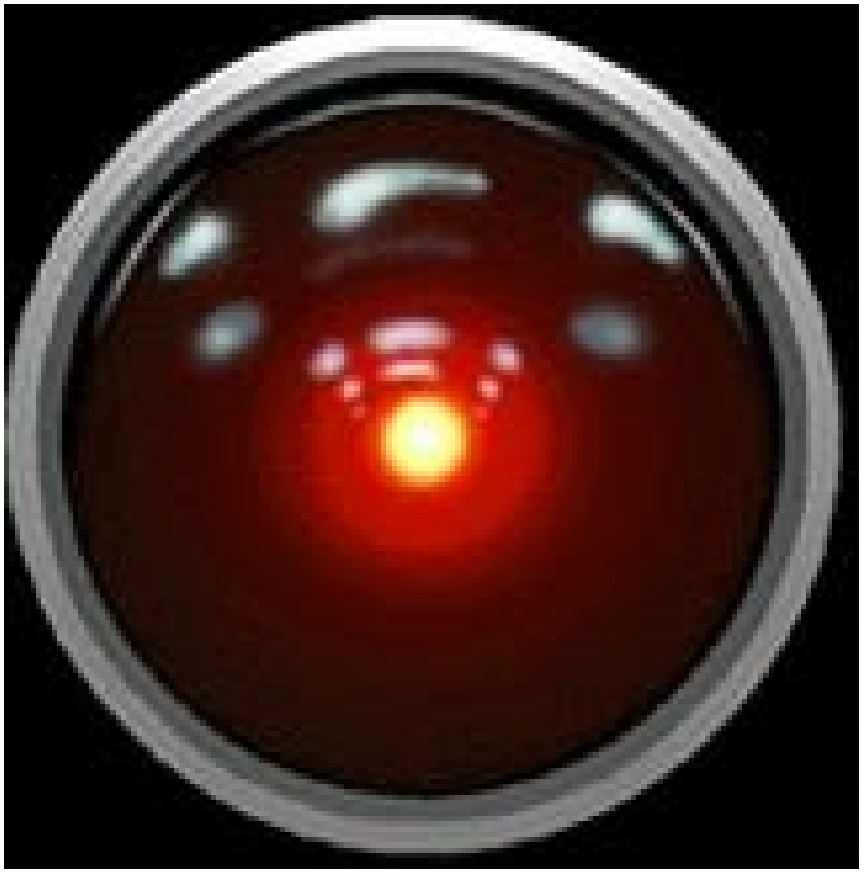

CS 378: Autonomous Intelligent Robotics FRI-II

Instructor: Jivko Sinapov

http://www.cs.utexas.edu/~jsinapov/teaching/cs378_fall2016/

Today: Robot Demos and Q&A

Announcements

Written Project Proposal

- Due Thursday, Sept. 30
- Send PDF to me by email with subject “FRI Project Proposal”
- CC all authors
- Proposals will be posted on class website
- You will peer-review 2 other proposals

Project Proposal Guidelines

- **Length**: 5-6 pages (-1 if working alone, +1 if in a group of 4)
- **Recommended sections**: Abstract, Introduction and Related Work, Problem Formulation and Technical Approach, Evaluation and Expected Contribution
- Your proposal must define your metric for success: how do you plan to evaluate your approach?

Next week...

- Tuesday, Sept. 20: no class, career fair
- Thursday, Sept 22: ML and RL (part 3)

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- Thursday, Sept 22: ML and RL (part 3)

To make up for Tuesday, your group should meet for 1-1.5 hours in the lab to work on your project

Reading Assignments

“A survey of robot learning from demonstration”. Brenna D. Argall, Sonia Chernova, Manuela Veloso, and Brett Browning. Robotics and Autonomous systems 57, no. 5, pp. 469-483, 2009.

"Using Geometry to Detect Grasp Poses in 3D Point Clouds". Andreas ten Pas and Robert Platt. International Symposium on Robotics Research (ISRR), Italy, September 2015.

“Robot Kinematics: Forward and Inverse Kinematics”, (Ch.4) Serdar Kucuk and Zafer Bingul

...or, pick an article of your own choosing

Additional “Robot” Office Hours

- Tuesdays 11 am – 12:30 pm
- Fridays 11 am – 1 pm
- Wednesdays 2 pm – 4 pm

- The purpose of these office hours is for you to use the robots, especially the arm robot, under loose supervision

Today: Robot Demos and Q&A

Setting up our codebase

- https://github.com/utexas-bwi/bwi
- https://github.com/utexas-bwi/segbot_arm

Robot Q and A

- How does the robot do X?
- Can the robot do X?
- Which software package does X?
- How can I make the robot do X?

Elevator Trip

Now let's make the robot take the elevator...