

Homework #5

- Out: Thursday, March 23
- Due: Thursday April 13

*HCI/ComS 575X: Computational Perception
Iowa State University, SPRING 2017*

For part 1 and part 2 refer to the videos posted on the class web page.

Where is the Ball? (Part 1)

Write a program that tracks the position of the orange ball in the movies with two cups. For each input video create an output video that shows the position of the ball even when it is under one of the cups. You can assume that once a ball is covered by a cup it will move in the same way as the cup. Your program must work with at least 2 of the sample movies.

Where is the Ball? (Part 2)

Do the same for the videos with three cups.

Color Tracking (Part 3)

Use a screen capture program to record 3 videos of you playing your favorite game. Then write code that uses color tracking to track the position of some object(s) in these videos. Your code should produce 3 output videos that show the tracking information. Each video should be at least 15 seconds long.

Some screen capture software:

Camtasia (<https://www.techsmith.com/camtasia.html>)

Open Broadcaster Software (<https://obsproject.com/>)

That's it.

Good Luck!