

# CS332 Visual Processing in Computer and Biological Vision Systems

## Exam 1 Coverage

The first exam will be held in class on Thursday, October 18. It will be an open book exam – you can refer to any of your handouts, notes, assignments and solutions during the exam. The exam will focus on edge detection, stereo vision, and motion measurement. The following material will be most useful for preparing for the exam:

Handout entitled, “Notes on Edge Detection in Computer Vision Systems”

Palmer, S. E. (1999) *Vision Science: Photons to Phenomenology*, Cambridge: The MIT Press.  
Excerpt on stereo vision, pages 206-216

Hildreth, E. C. (1990) *The Neural Computation of the Velocity Field*, in Vision and the Brain (Cohen & Bodis-Wollner, eds), 139-157.

Assignments 1-3 and solutions

Lecture handouts and your lecture notes related to edge detection, stereo vision, and motion measurement (Classes 3-15, not including the new material on observer motion).

You do not need to remember specific facts about the human visual system, but I may include problems in which I describe aspects of human perception and ask you to relate these observations to the behavior of computational models that we discussed.

\*\*\* There will be no MATLAB material on this exam \*\*\*

**Note:** We will hold a review for the exam in class on Monday, October 15<sup>th</sup>.