

CS332: Visual Processing in Computer and Biological Vision Systems

Exam 2 Coverage

The second exam will be held in class on Thursday, November 10. 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 the recovery of shape from shading and motion analysis. It will not include any MATLAB programming. The following material will be most useful for preparing for the exam (for the papers, see the particular page numbers listed on the handouts):

Chapter by Woodham entitled, “Photometric method for determining shape from shading”

Paper by Hildreth on “The Neural Computation of the Velocity Field”

Paper by Ullman on “The Incremental Rigidity Scheme and Long-Range Motion Correspondence”

Assignments 5-7 and their solutions

Lecture handouts and your lecture notes related to shape from shading, motion measurement, the recovery of 3-D structure from motion, and observer motion

You do not need to remember particular facts about the human visual system, but I may pose a problem in which I describe an aspect of human perception and ask you to relate this observation to the behavior of computational models that we discussed.

Note: We will hold a review for the exam on Wednesday, November 9th. I will provide formal solutions to Assignment 7 on that day, after you submit your solutions.