

CLPS 1530 – S01, Spring 2013

3D Shape Perception

Instructor: Fulvio Domini
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Textbook & Readings: Selected papers on 3D shape Perception.

Course Requirements: The only course requirement is participation. For each lecture two papers will be assigned. The papers will be informally presented by two students at each meeting and discussed in class. Each of the students that do not present the assigned papers will prepare three questions in written form about the theory and experimental methods described in the papers. The written questions will be thoroughly evaluated and used to assess the student understanding of the material.

Grades will be established on the bases of:

- 1) Quality of student's presentation (50%)
- 2) Written questions and participation (50%).

1. Introduction to 3D perception

Week 1

2. Perception of 3D structure from motion

Week 2 – 4 (6 papers)

2. Perception of 3D structure from stereo

Week 5 – 7 (6 papers)

3. Perception of 3D structure multiple cues

Week 8 – 10 (6 papers)

4. Active 3D vision and the problem of Cue-Integration

Week 11 – 12 (6 papers)