

Outline

CS376 Computer Vision

Wednesday, Feb 28, 2011

- Reminder: Pset 2 due Wed March 2
- Reminder: Midterm exam is Wed March 9
 - See practice exam handout today
- My Wed office hours moved up to 12:15-1:15 due to travel for meeting.

Alignment and fitting, part 2

- Alignment problem, connection between alignment and warping
- Last time: 2d parametric warps

- RANSAC for robust fitting
 - Basic algorithm definition
 - Examples with line fitting, translation fitting
 - Pros and cons

- Last time: fitting affine parameters from image correspondences
- Projective transformations
- Homography and image reprojection
 - Perspective projection intuition
 - Connection to image mosaics
 - Solving for homographies
 - Applying with 2d image warping (forward, inverse)
 - Using homographies to manipulate images: rectification, stitching

Coming up: which local features to match? How to detect them?