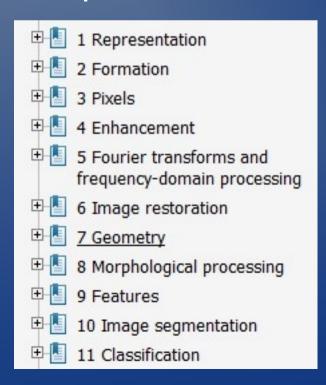
Week 1

Cody Seibert

Readings

- Fundamentals of Digital Image Processing: a Practical Approach with Examples in MATLAB
 - Read all chapters (1 through 11)
 - Skimmed chapters 5 and 6



Optical Flow

- Implemented Lucas-Kanade optical flow with pyramids.
 - Used flowToColor.m to show magnitude and direction of flow

Image 1

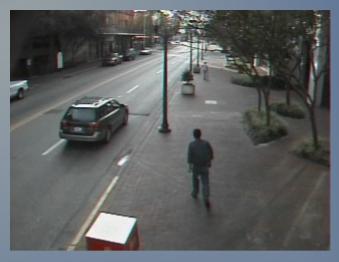
Image 2

Flow





















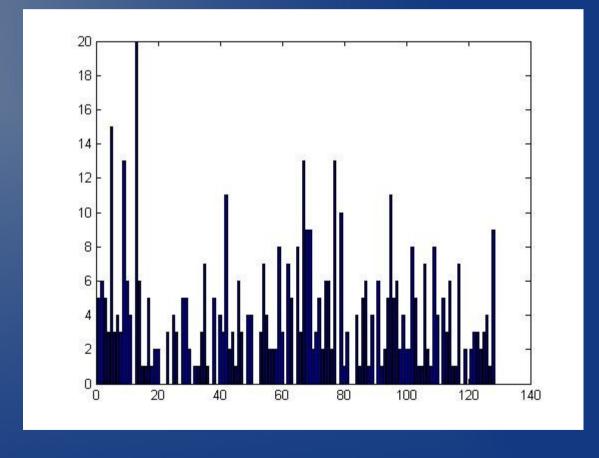




Sift Descriptor

Input patch of 18x18 centered at (100, 200)

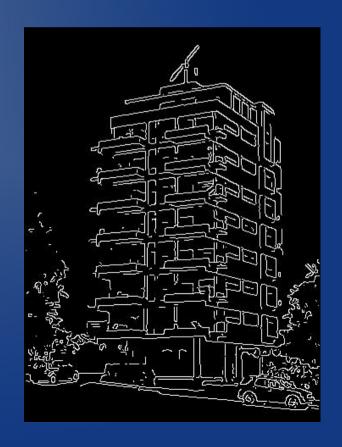




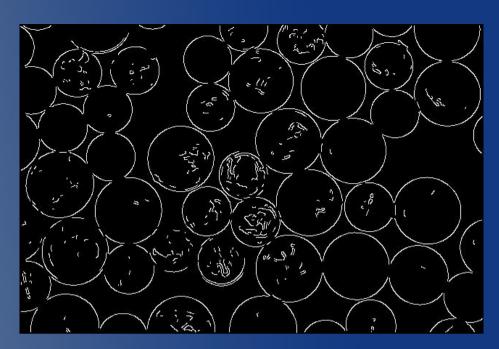
Canny Edge Detection

- Issues:
 - Crashes Matlab on specific threshold values (assuming it is stack overflow)













Projects of Interest

- Crowd counting by estimation of texture repetition -Imran Saleemi
- Visual Saliency Detection -Nasim Souly
- Web-Assisted Object Detection for Outdoor Scenes - Amir R. Zamir