



- Name of Organization
 - University of California, San Diego
- Lead Investigators
 - David Kriegman, Serge Belongie

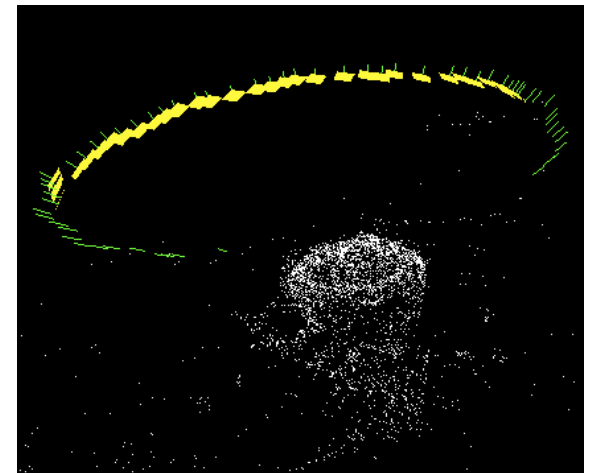
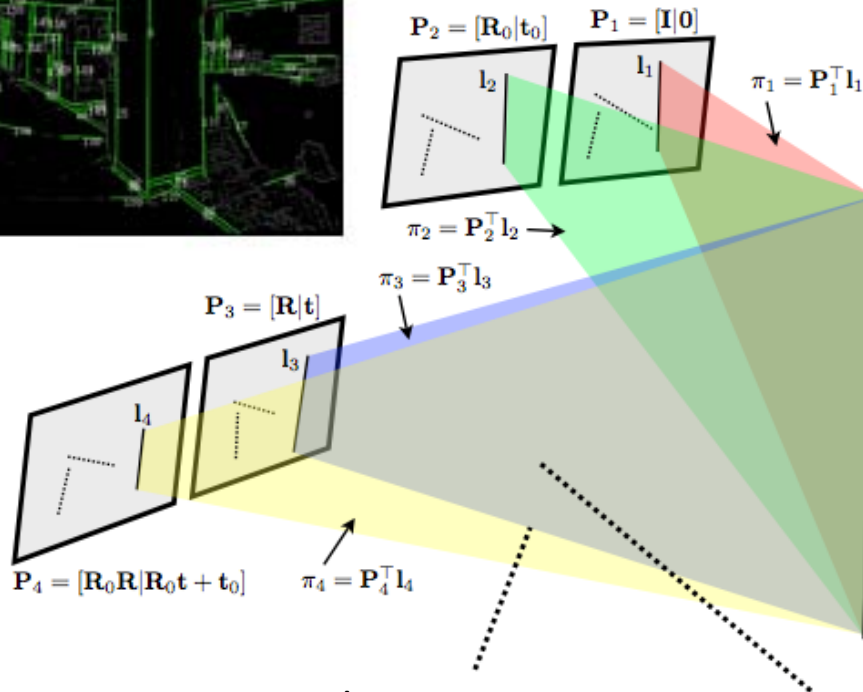
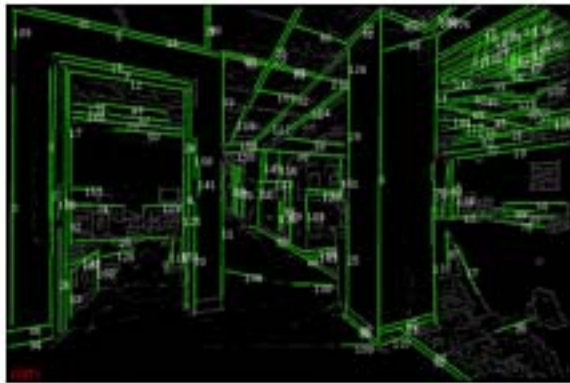
Contact information

kriegman@cs.ucsd.edu

(858) 822-2424

<http://vision.ucsd.edu>

Multiview Geometry and Autocalibration



- Efficient Structure and Motion Using Lines
- Global Optimization for Multiview Geometry
[ICCV 2005] Marr Prize
[IJCV 2008], [CVPR 2008], [ICCV 2009],

- Direct Autocalibration

[ICCV 2007] Marr Prize Honorable Mention
[CVPR 2007], [IJCV 2009]

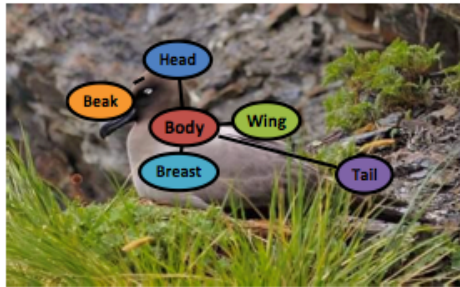
Recognition with Humans in the Loop

Capturing & Sharing Visual Knowledge

IMAGE CLASS: Sooty Albatross



Ground Truth Part Locations



Predicted Part Locations



Forster's Tern? no



Bohemian Waxwing? no



Black-footed Albatross? no

Q1: Click on the head
(3.656 s)

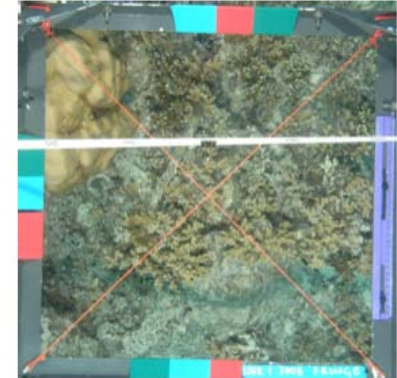


Q2: Click on the body
(3.033 s)



Q3: Is the bill black?
yes (4.274 s)

Sooty Albatross? yes



“Visipedia” Visual 20 Questions Game

[NIPS 2010] Best Student Paper Honorable Mention

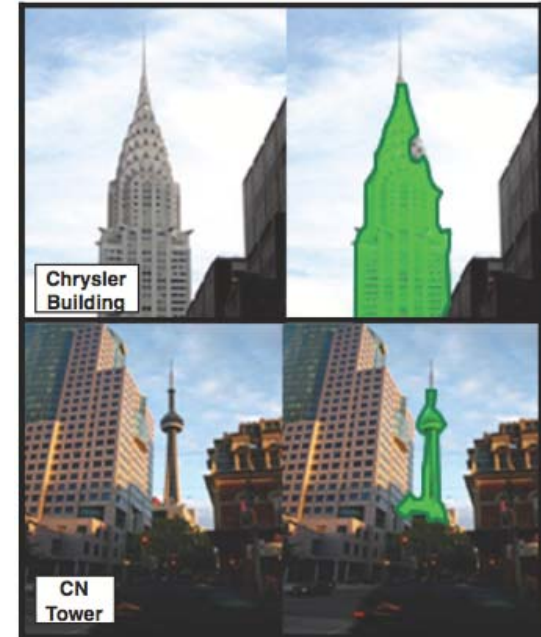
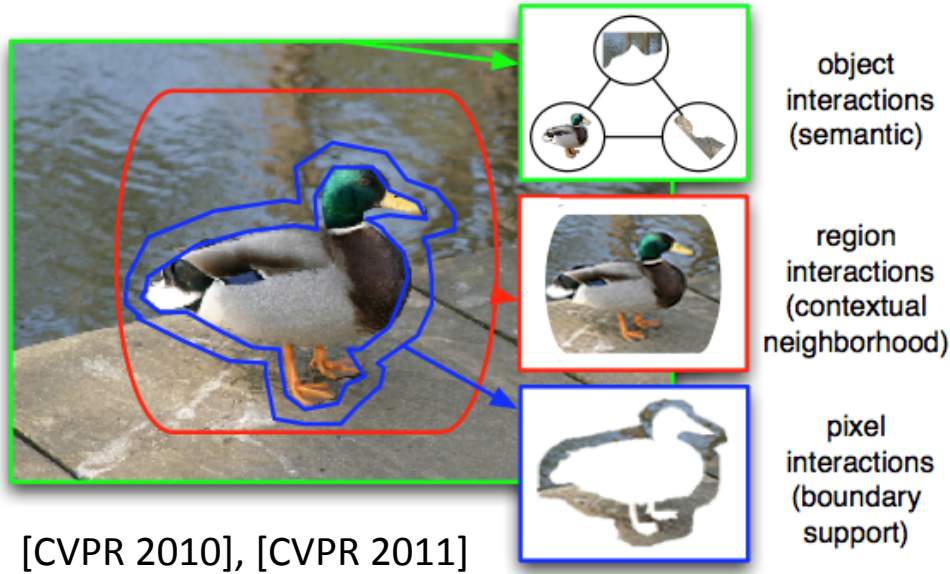
[ECCV 2010], [ICCV 2011 in review]

Coral Reef Ecology

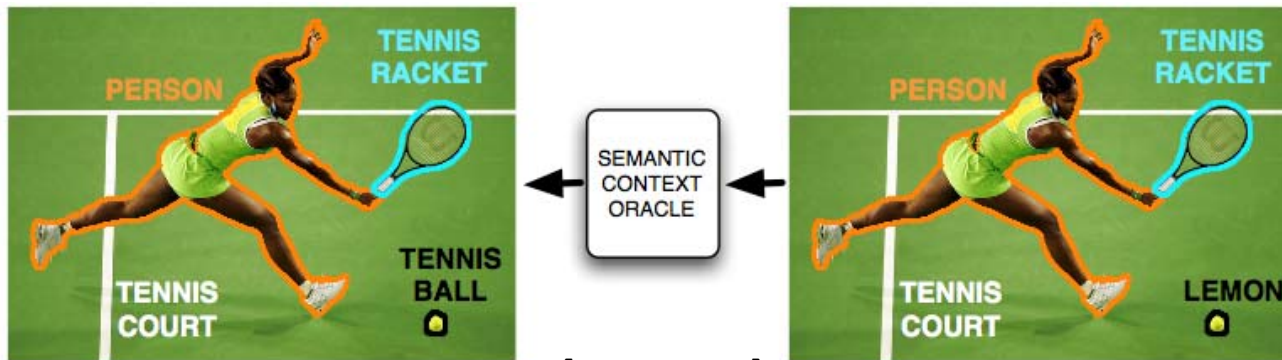
[ASLO 2011]

[ICCV 2011 in review]

Context Based Recognition



[ECCV 2008]



[ICCV 2007]



Word Spotting in the Wild

OCR Beyond the Printed Page

Input Image:

Character Detection

PLEX

SVM+NMS



Google Street View

“View from Your Window” Game

[ECCV 2010], [ICCV 2011 in review]