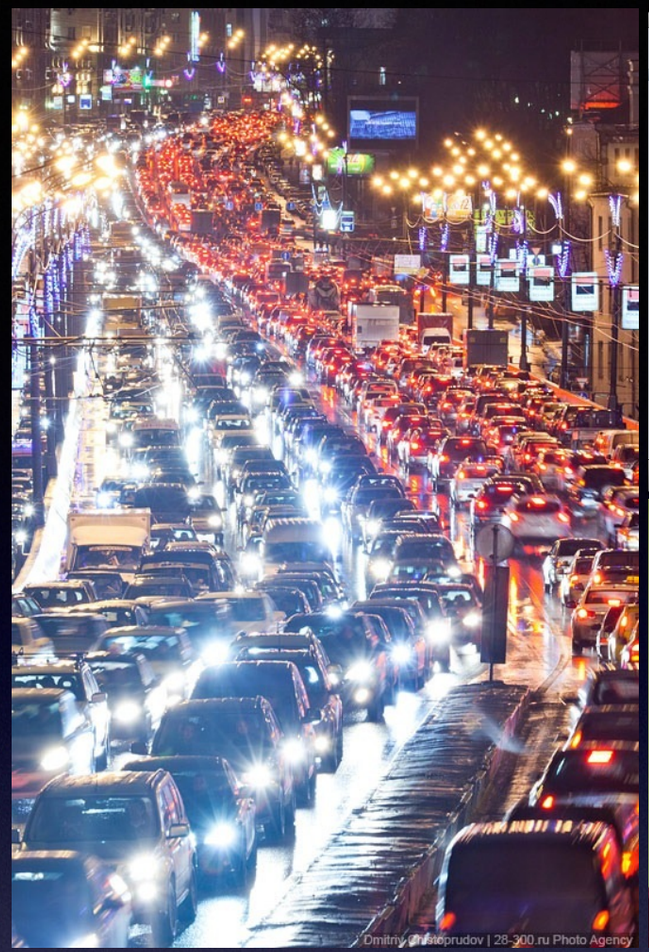
A Computer Vision Sampler

COMPSCI 527

Today:

- Course logistics
- Introduction to computer vision

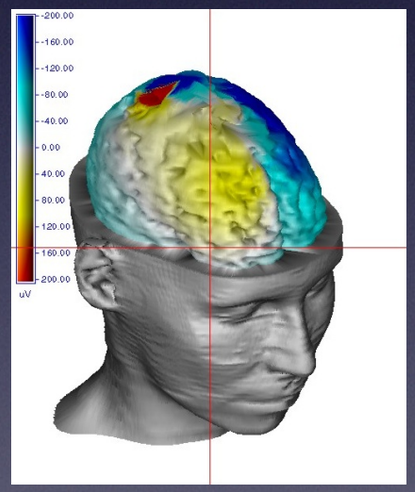

Dmitriy Chistoprudov | 28-300.ru Photo Agency

iPhoto
LIBRARY
Events
Photos
Faces
Places
RECENT
Summer Vacation
Last Import
Last 12 Months
Flagged
Trash
ALBUMS
Unnamed
Recovered Photos
WEB
PROJECTS
Plants Book
SLIDESHOWS
Plants Slideshow
Short Slideshow
Long Slideshow
All Faces
Allyson 3 photos
Photos
Faces
Allyson may be in 1 additional photo
Confirm Additional Faces...
Full Screen
Search
Zoom
Slideshow
Info
Edit
Create
Add To
Share

ASIMO
HONDA

Google
self-driving car

eSSL
Security at Fingerprints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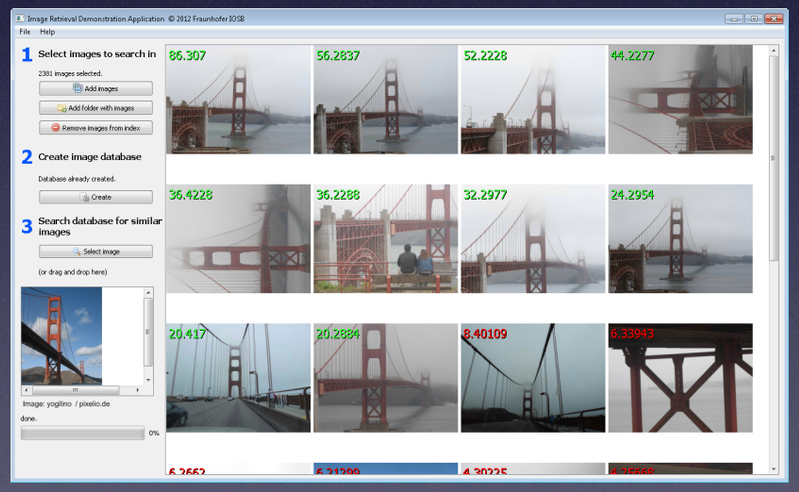
Image Retrieval Demonstration Application © 2012 Fraunhofer IOSB
File Help
1 Select images to search in
2301 images selected.
Add images
Add folder with images
Remove images from index
2 Create image database
Database already created.
Create
3 Search database for similar images
Select image
(or drag and drop here)
Image: yogilino / pixelio.de
done.
0%
86.307
56.2637
52.2228
44.2277
36.4228
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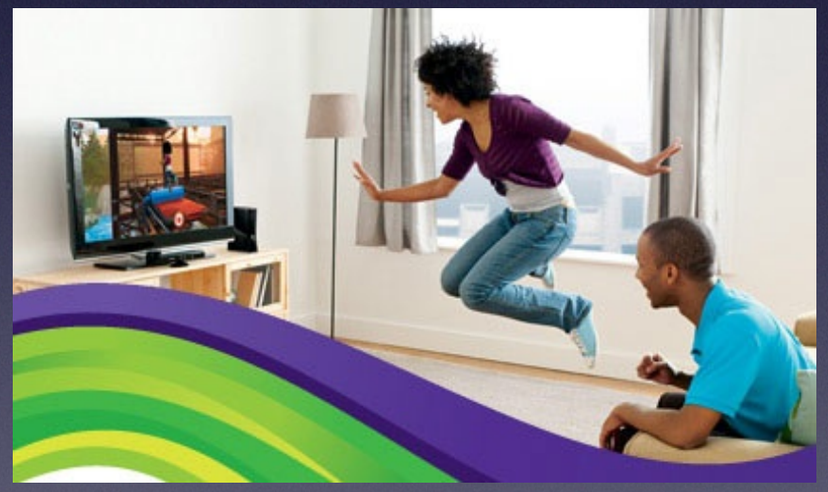

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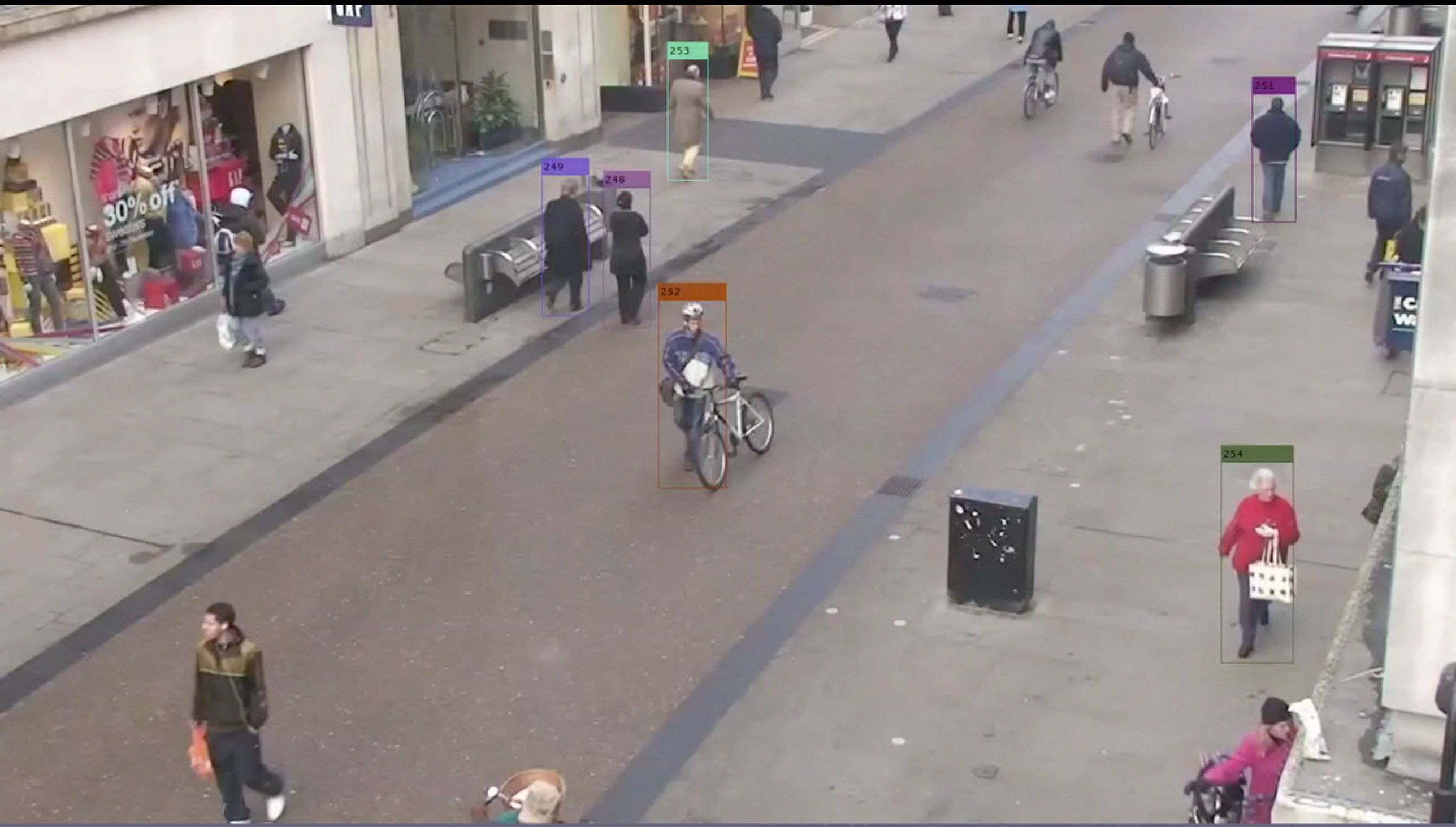
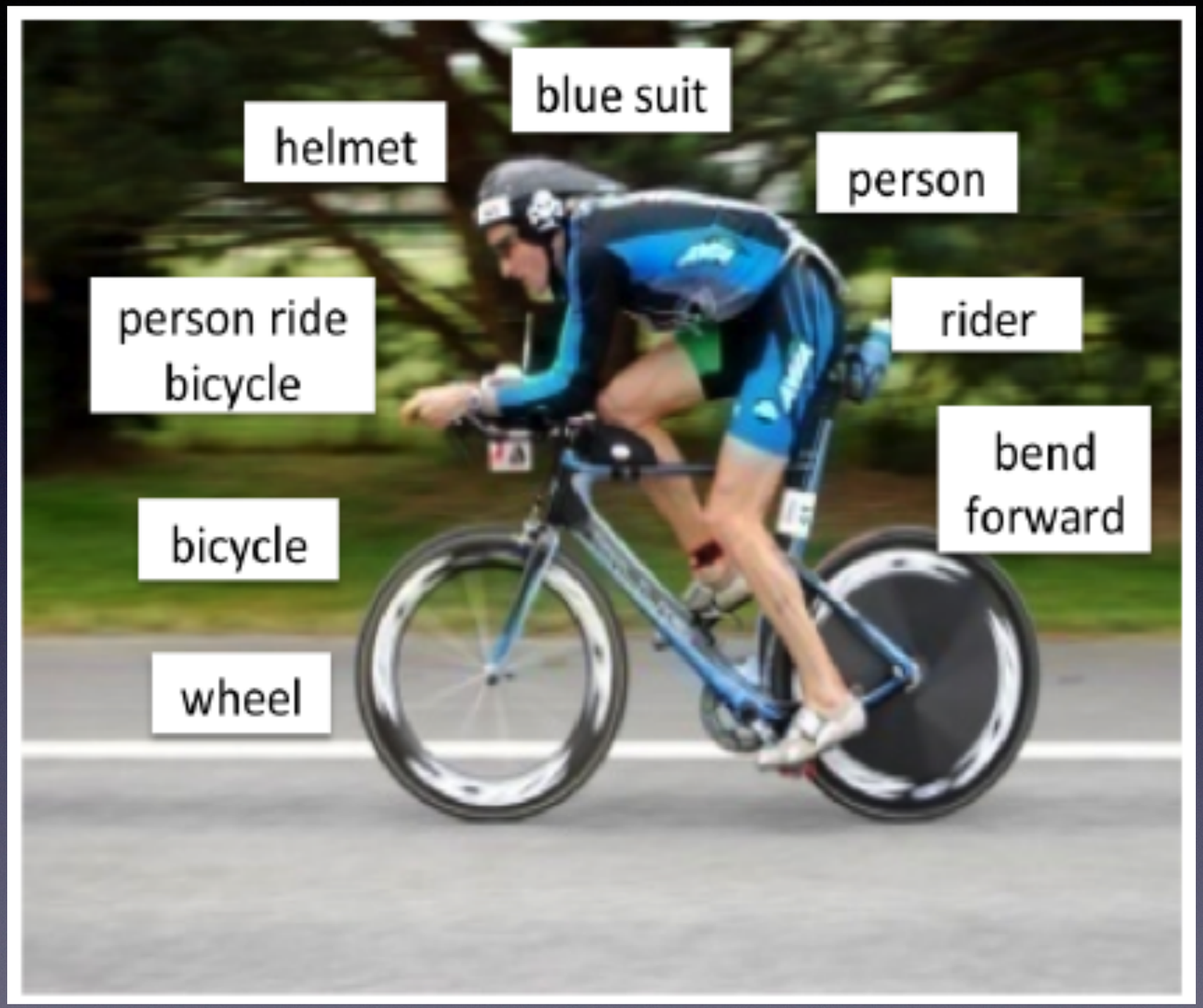
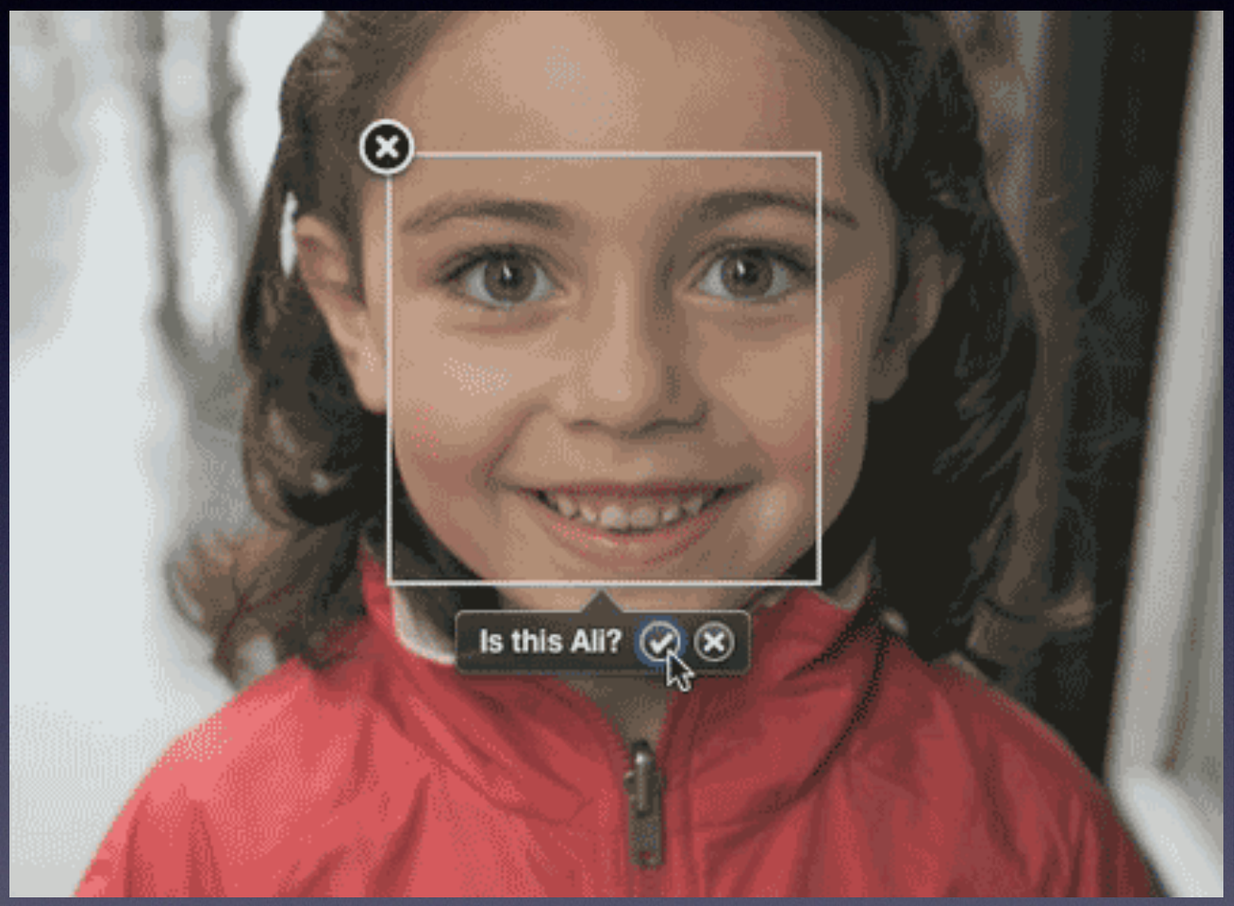
Sameer Agarwal *et al* CACM 2011



Benfold and Reid CVPR 2011



Tian Lan *et al* ICCV 2013



Apple Computers 2010

[slide idea by Fei-Fei Li]

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Photo by Robert Whitman
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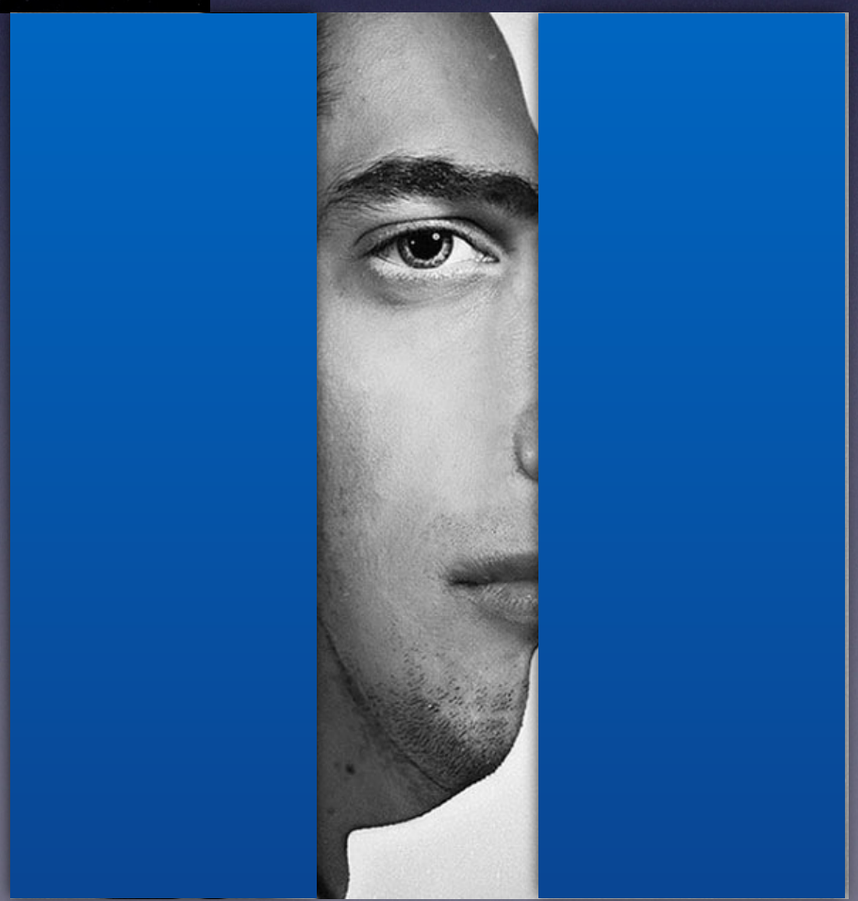

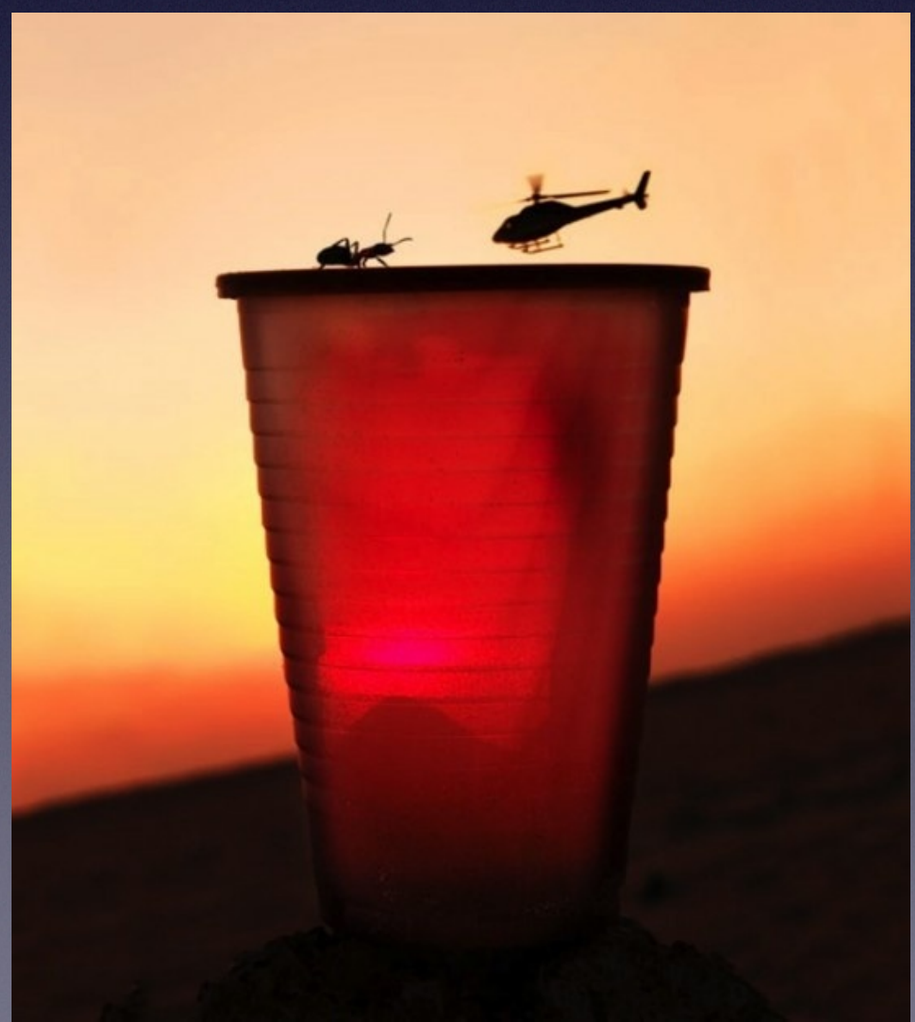

- Detect: Is there one or more instance of x in this image?
- Localize: Where are the instances?
- Segment: Where are the boundaries of each instance?
- Track: How is this instance moving from one image to the next?
- Recognize = classify: What is this?
- Reconstruct: Given two or more 2D images of a scene, compute a 3D model of it