# **Image Colorization**





# Chinese Painting Style Transfer









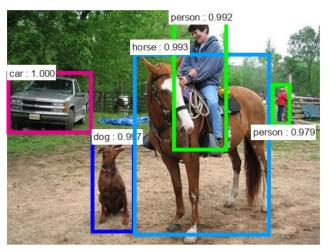
(b) Content

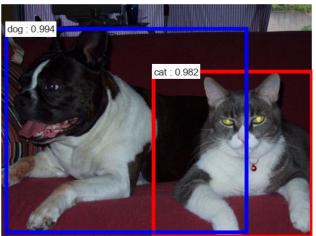


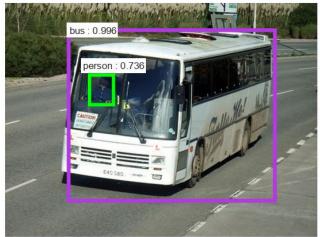
(c) Generated Result by (a) + (b)

# **Object Detection**





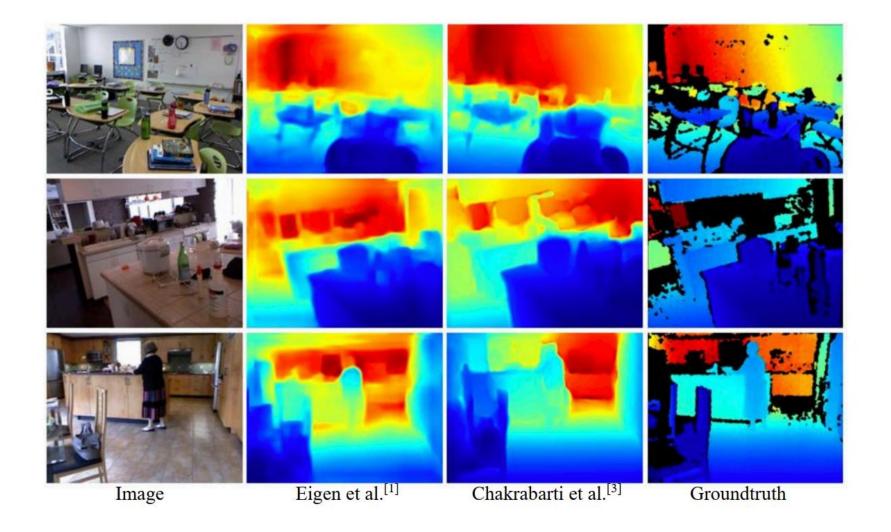






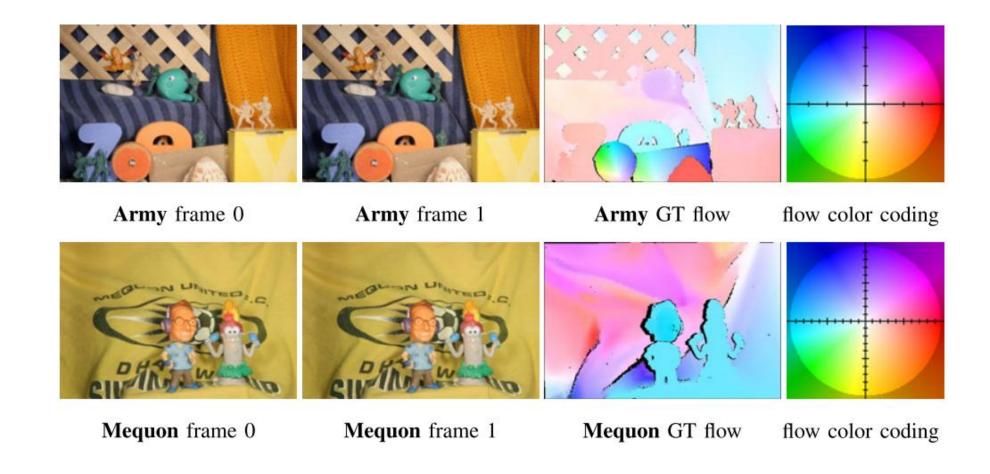
# Monocular Depth Estimation





### **Optical Flow Estimation**





#### Vision-based SLAM



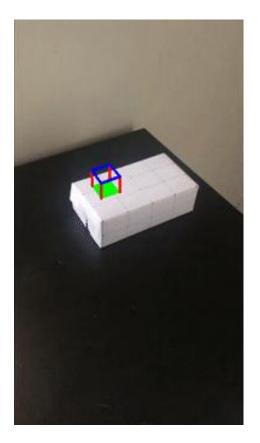


# Easy Augmented Reality









result



tracked points

Credit: Alex Efros

### Report Template



- Please refer to the enclosed template file or the overleaf project at:
  - https://www.overleaf.com/read/rdtytdngpdhk

### Grading



- Three mini programming projects:
  - Homework1 (10%)
  - Homework2 (15%)
  - Homework3 (15%)

- Final: Team work, ≤ 3, Weight: 1.0, 0.9, 0.8
  - Final Project (50%)
    - Deadline: At the very beginning of Spring Semester 2024 [Tentative: March 8, 2024]
  - Final Project Presentation (10%)
    - TBD