

## Computer Vision I – Image Processing: Entry survey

- List three specific tasks where computer vision would be desirable.  
Answer: Robot-human interaction, object/face recognition, 3D modeling, motion/change analysis, robot/drone navigation/exploration, missile targeting, industrial automation, assisting human driver, robocup soccer.
- What do you think are the major hurdles in computer vision?  
Answer: Achieving close to human performance, distinguishing signal from noise, feature extraction, object recognition, large volumes of static/streaming data, abstract operations (e.g., imagining), 3D vision.

## Exit survey

- List some problematic states of objects for which an object recognition algorithm must be invariant for.  
Answer: Scale, rotation, occlusion, color, illumination, distortion, deformation, viewpoint, ...
- What kind of a filter mask would you convolve with an image to detect diagonal lines?  
Answer: Filter that changes sign across the diagonal, or one that is a combination of horizontal and vertical line detectors.