Computer Vision – Course Outlines

Image Formation
• Human vision
• Cameras
• Geometric Camera models
• Camera Calibration
• Radiometry
• Color

Early Vision (one image)
• Linear Filters
• Edge Detection
• Texture
• Motion

Early Vision (Multiple images)
• Geometry of Multiple images
• Stereo

Mid-Level Vision:
• Segmentation
  • By clustering
  • By model fitting
  • Probabilistic
• Tracking

High-Level Vision:
• Model-based vision
• Appearance-based vision
• Generic object recognition