Image segmentation, cross-domain video analysis and artistic renderings

• Image segmentation and grouping
  – aiming to make “sense” of images: “the vision problem”

• Cross-domain image and video analysis
  – so that your face is always recognizable no matter it is depicted in a photo, a pencil drawing or a painting
  – sketch recognition and analysis

• Non-Photorealistic Rendering (NPR)
  – making artistic renderings from images and videos – fun yet requires “sensible” interpretations of the scene

• Multimedia sensor networks
  – extending to a network of cameras and how other sensors (audio, range, …) embedded can help to solve vision problems

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