

Projects

- Summarizing videos
- Find image copies
- Detecting motion patterns in surveillance videos

Time-varying image analysis- 1

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Summarizing videos

- Use edge and flow histograms as image descriptors to summarize videos
- Use k-means to find sub-sequence center frames
- Test your method on several different image sequences

Time-varying image analysis- 2

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Find image copies

- Use edge histograms, image corners, and affine invariants to find scaled, cropped, or flipped copies of images
- Edge histograms can provide initial matches (you can use color histograms as well)
- Image corners and affine invariants should provide a better, more reliable match

Time-varying image analysis- 3

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Detecting motion patterns in videos

- Observe a hallway using a surveillance camera
- Detect moving people
- Observe their motion pattern
- Determine if they are 'loitering'.

Time-varying image analysis- 4

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