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Computer Vision

Assume: images, image capture, simple image processing - hence 102

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Research Interests: 3D computer vision/video analysis

And lots of help from: T. Breckon, L. Horna, S. Rodnes, E. Vafeias

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Introduction & Overview



Welcome to Computer Vision 102

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The Empty Boxes

Most slides have an empty box

Neuroscience shows a connection between motion and memory systems

Educational experience shows activity improves retention

Most slides have a box to fill in with an important concept word: to emphasise the concept, stimulate the memory & keep you awake.

PS: Educational evidence shows retention drops to c. 10% after 30 min. So take a break!

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7. 3D capture (video)

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Seven Example Image Analysis Systems

- 1. Orthographically viewed rigid 2D objects
- 2. Orthographically viewed non-rigid 2D objects
- 3. Video change detection & tracking
- 4. Video: human behaviour analysis
- 5. Recognising 3D objects from range data
- 6. Recognising 3D objects from stereo data
- 7. DeepNets for Vision Introduction