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Datasets:

ImageNet Large Scale Visual Recognition Challenge – A yearly competition with millions of images tagged for object classification. The best CNN approaches are evaluated at this competition.

Caltech Pedestrian Dataset – 10 hours of video going through an urban environment. 250,000 frames with pedestrians are tagged.

Open Surface – Tagged surfaces created from real pictures. A single surface can contain material textural and contextual information.

Researchers:

Alex Krizhevsky – First to win ImageNet competition with CNN in 2012.

Tony Lindeberg – Worked on feature detection and scale-space theory.

Pierre Sermanet – Part of the Overfeat CNN team. Also worked on pedestrian detection.

Frameworks:

TensorFlow – Fairly recent neural network framework from Google. Based around tensors as computational building blocks for large scale neural networks. Google deep mind, the team behind AlphaGo, is switching over to TensorFlow from older frameworks.

VLFeat – Computer vision algorithms for feature extraction and matching. Has implementations on SIFT, MSER, k-means, and SVMs.

Links:

<http://www.cs.ubc.ca/~lowe/vision.html> – List of computer vision products developed by companies. Types of computer vision solutions are categorized.

http://www.rsipvision.com/computer-vision-news – A monthly magazine that keeps track of the new trends and research in computer vision. Its goal is to fill in the gaps between papers and give an overarching view of the field.