

OpenCV: Open Source Computer Vision

General Image Processing Functions



Image Pyramids

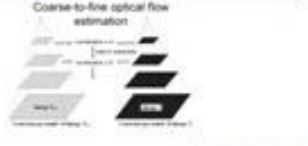


Geometric descriptors



Image Pyramids

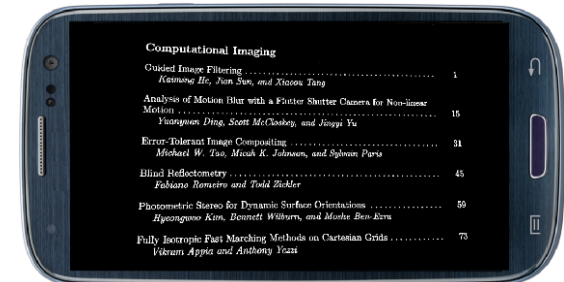
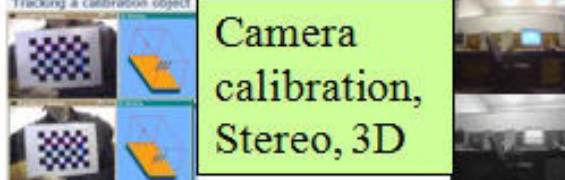
Coarse-to-fine optical flow estimation



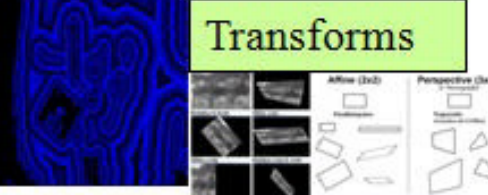
Segmentation




Camera calibration, Stereo, 3D



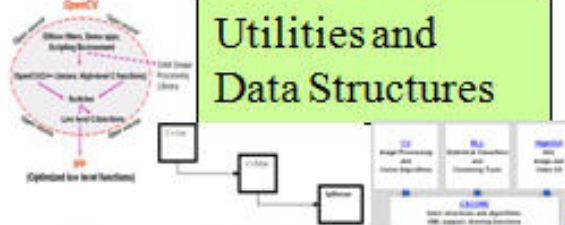
Transforms



Features

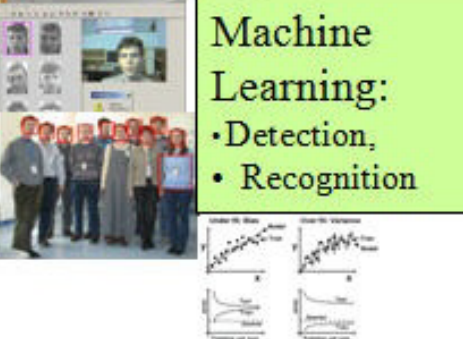


Utilities and Data Structures



Machine Learning:

- Detection,
- Recognition

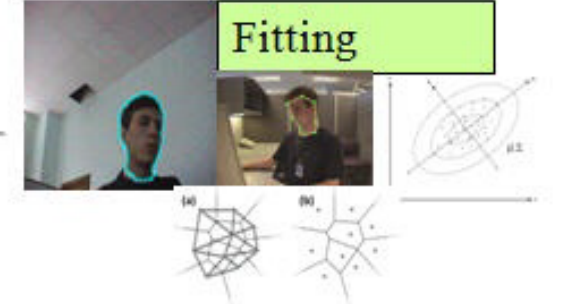


Tracking


Optical Flow in 1D



Fitting



Matrix Math



<http://docs.opencv.org>

OpenCV for Android

- Port of OpenCV to Android platform
 - Over 2K optimized algorithms written in C/C++
 - Compiled with STL-enabled Android NDK
 - Enables popular CV functions to be used on mobile images/videos
- Differences from regular Android programming
 - Requires writing C/C++ code
 - Requires writing Java Native Interface (JNI) wrappers
 - Requires using Android NDK in addition to Android SDK
- Our Tutorial #2 helps to make the transition
 - How to set up OpenCV programming environment
 - How to write Android apps that call OpenCV functions
 - How to integrate NDK compilation into Eclipse IDE