

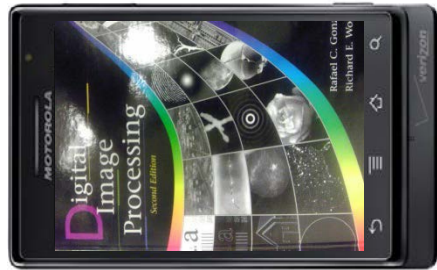
# Class resources for mobile image processing

- Android tutorials designed specifically for mobile image processing applications in the EE368/CS232 class
- Tutorial #1: Basic Android Setup
  - Image processing-oriented introduction to Android
  - Explains how to download and install the different software packages (SDK, Eclipse) on your own computer
  - Shows how to build and run viewfinder augmentation apps in real time
- Tutorial #2: OpenCV for Android Setup
  - Builds on core skills developed in Tutorial #1
  - Explains how to download and install OpenCV for Android
  - Shows how to build viewfinder apps that detect circles and lines, detect feature keypoints, track feature keypoints, perform locally adaptive thresholding, detect human faces, ...

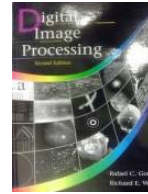
# Class resources for mobile image processing

## ■ Tutorial #3: Server-client communications

1. Client takes an input image



2. Send data to server



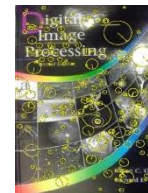
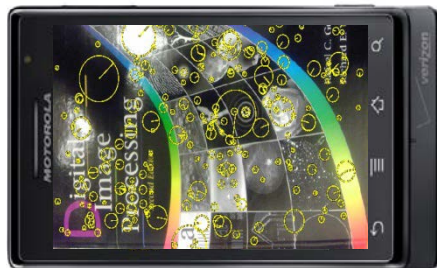
3. A PHP server invokes application

HTTP



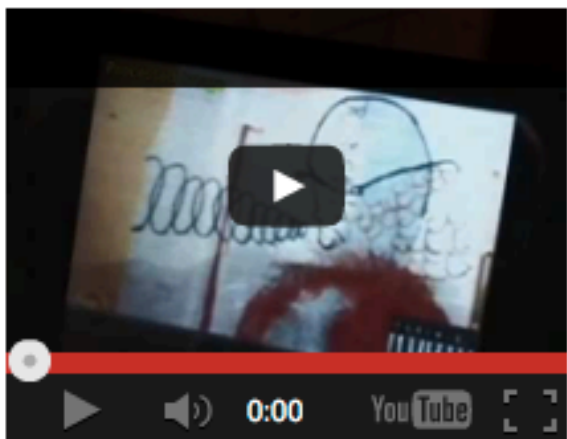
4. Server-side application processes the data

5. Client receives the processed result



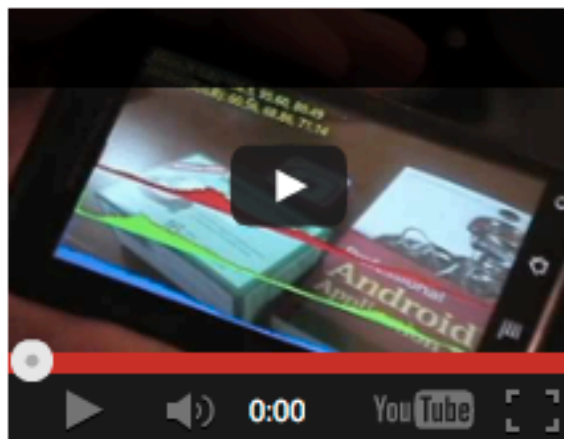
# Sample projects

Histogram Equalization



[Project Files \(zip\)](#)

Color Histograms



[Project Files \(zip\)](#)

Feature Tracking



[Project Files \(zip\)](#)

Locally Adaptive Binarization



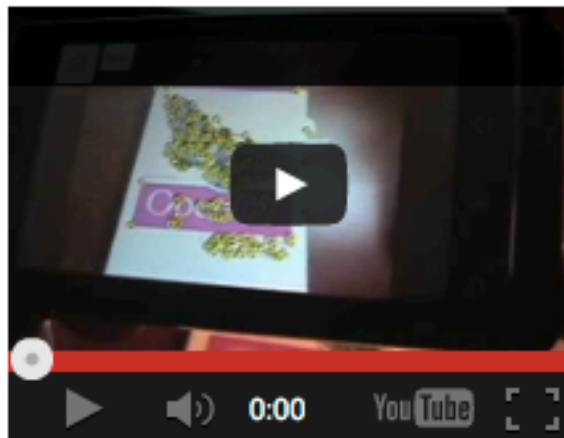
[Project Files \(zip\)](#)

Edges, Lines, and Circles



[Project Files \(zip\)](#)

Local Feature Keypoints



[Project Files \(zip\)](#)

Human Face Detection



[Project Files \(zip\)](#)