

Automated Coin Recognition with Android Phone

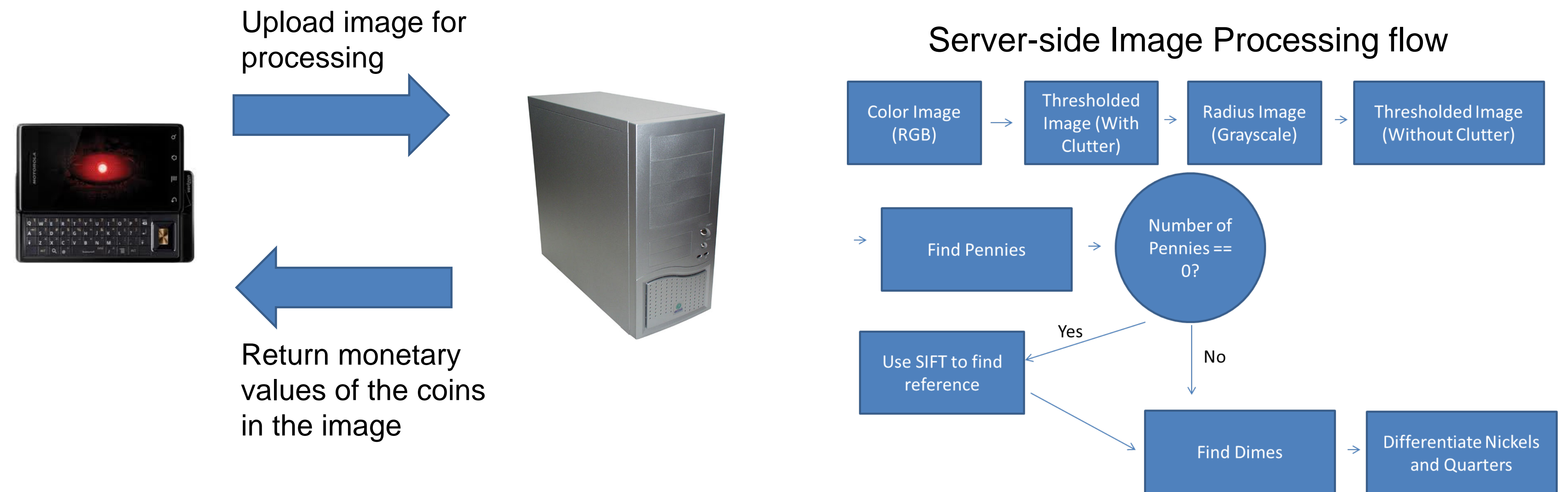
Mihir Pendse, Yiwei Wang

Department of Electrical Engineering, Stanford University

Motivation

- Coin counting is a tedious and repetitive task for human thus making it an undesirable method of payment
- A coin recognition/counting mobile application can speed up the processing to accessing the value of large amount of coins.

Coin Detection and Recognition



Results and Future Work

Results

- Able to correctly recognize/count the coins with reasonable lighting conditions and focus
- The accuracy decreases if the lighting is not uniform
- SIFT matching is problematic due to the low resolution of the feature on an individual coin

Future work

- Migrate all processing to android platform
- Reduce the runtime of the algorithm
- Coin detection with overlapping surfaces

Experimental Results

