Automated Coin Recognition with Android Phone
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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

- Upload image for processing
- Return monetary values of the coins in the image

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