



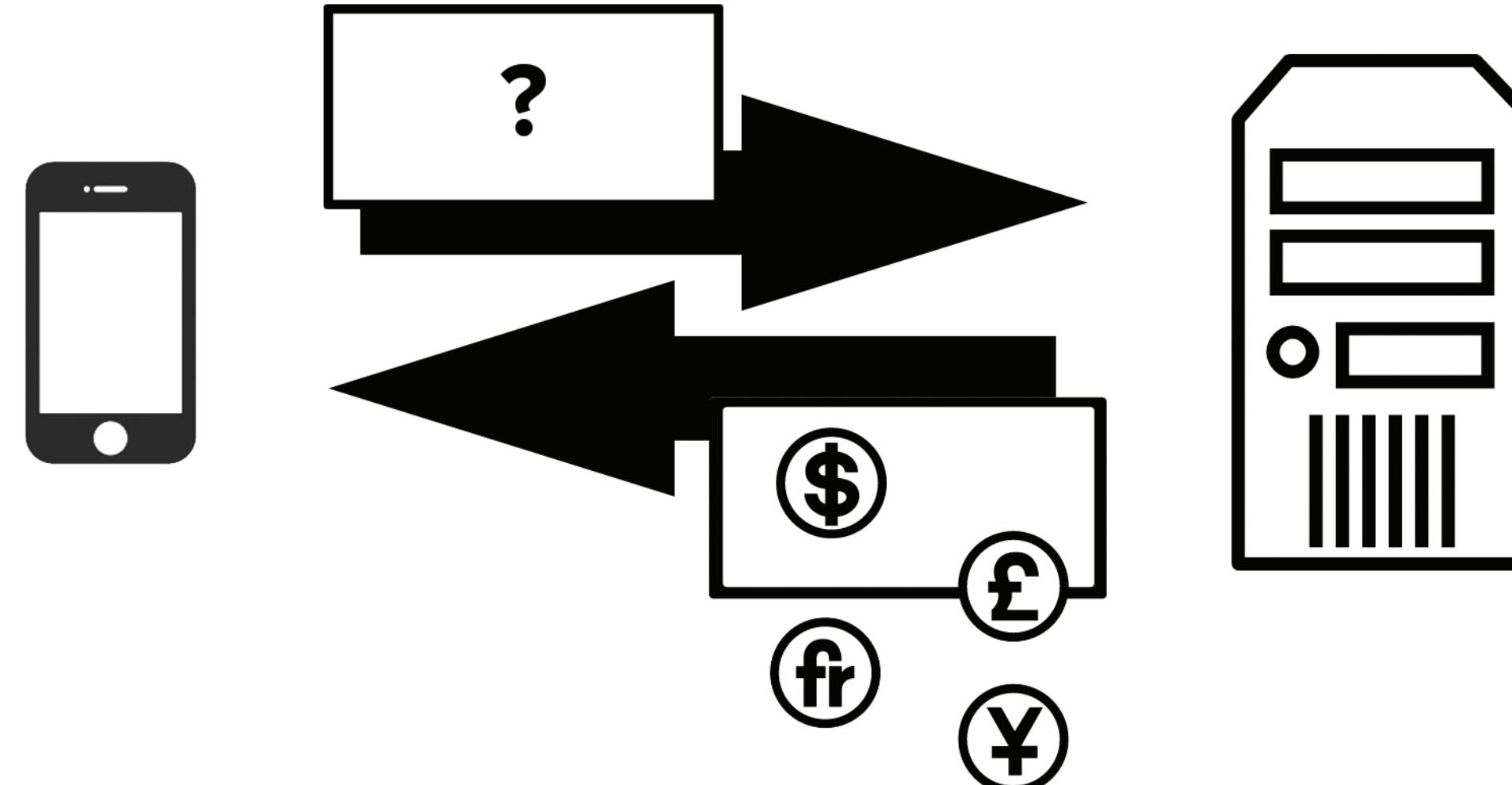
Foreign Bill Detection, Identification and Currency Conversion Using Sift

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Project Goals

Detect, locate and identify paper currency notes in an image. The value of detected notes is reported to the user in USD.

Data Flow



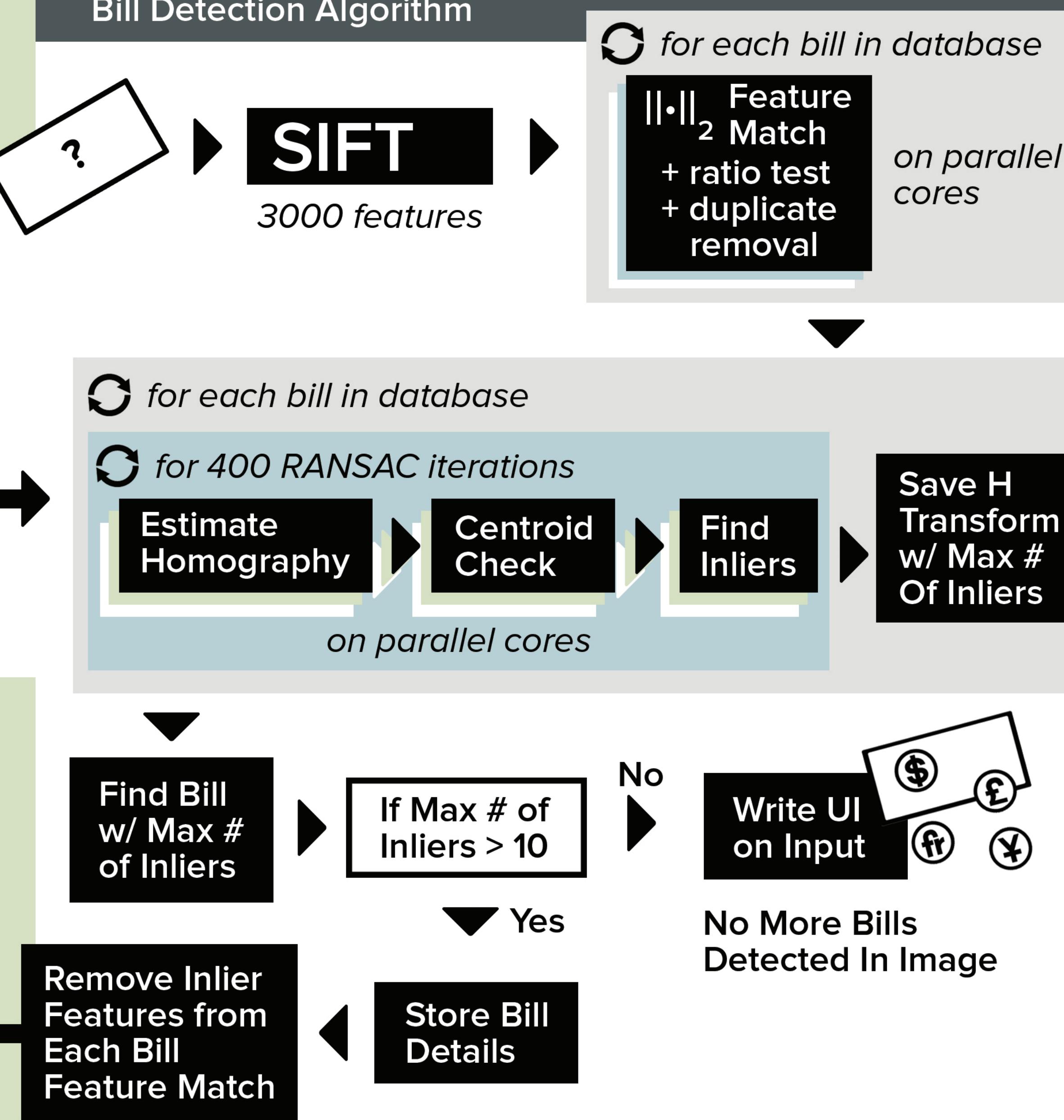
Our mobile app uploads a smart phone camera photo to a LAMP server where it is processed. The server returns an image with the matched bills labeled, converted to USD and totalled.

The Algorithm

Preprocessing The Golden Samples



Bill Detection Algorithm



Results



14 bills (front & back) can be detected, distinguished and totalled. Up to 12 bills can be detected at once. Overlapping and similar bills can be properly detected.