



Input Image

Gabor Filter

Step 1



Clustering

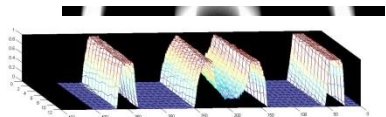
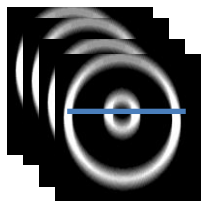
Step 2



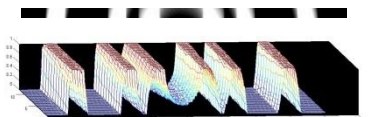
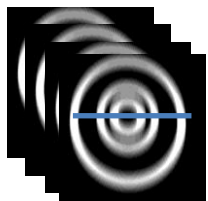
PCA to determine  
dominant direction

Step 3

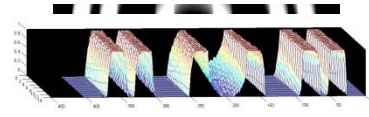
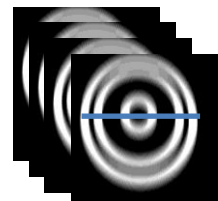
Fiducial Codes Training Data



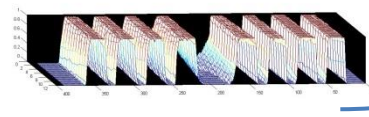
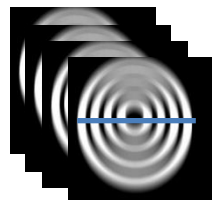
00



01

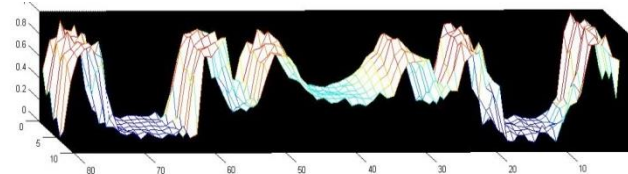


10



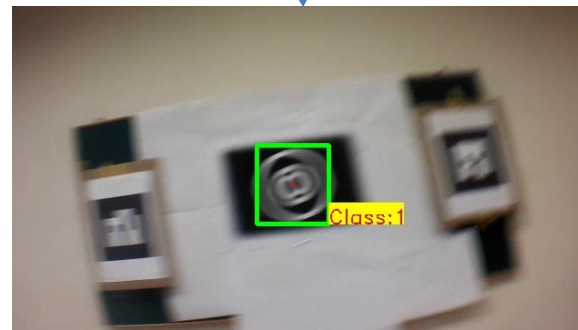
11

Detected Intensity Profile



K-NN Classifier

Step 4



Final Output  
with Code ID