

16-720B Homework 1 Write-up

Gu, Qiao

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Q1.1.1

Q1.1.2

Please see the Figure 1 for the filter responses

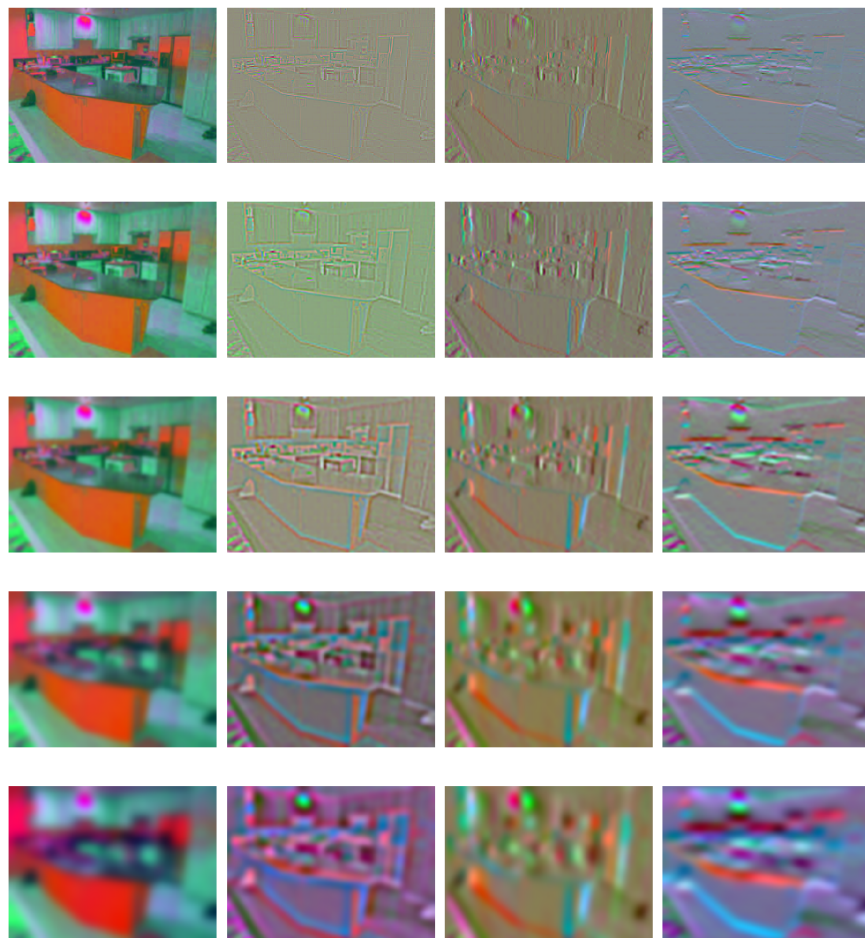


Figure 1: Filter responses on the image `aquarium/sun
aztvjgubyrgrvirup.jpg`.

Q1.3

Q2.5

The overall accuracy is 0.64375, and the confusion matrix is as follows:

```
[[14.  0.  0.  0.  0.  0.  0.  0.]
 [ 0. 14.  0.  1.  0.  1.  2.  0.]
 [ 0.  0. 15.  4.  3.  0.  0.  3.]
 [ 1.  2.  1. 17.  0.  0.  1.  4.]
 [ 1.  1.  0.  0. 10.  1.  0.  0.]
 [ 0.  2.  0.  1.  8. 12.  1.  0.]
 [ 0.  5.  0.  0.  2.  3. 11.  0.]
 [ 0.  2.  3.  2.  1.  1.  0. 10.]]
```

Q2.6