
Pattern Recognition - EQ2340

Assignment 2

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October 6, 2015

1 FEATURE EXTRACTOR DESIGN

Our feature vector takes as input a set of vectors with three values; an x-coördinate, a y-coördinate and a bit (0 or 1) denoting whether the mouse button was pressed. The size of this set of vectors is in the order of hundreds: the location is measured 50 times per second, so a 3 second timeframe is represented by 150 vectors.

The output of the feature extractor is a set of

```
1 >> test
2 percentage of ones: 73.41%
3 percentage of twos: 26.59%
```

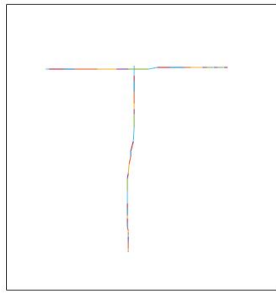


Figure 1.1: Drawing of capital T (first line down, then line to right)

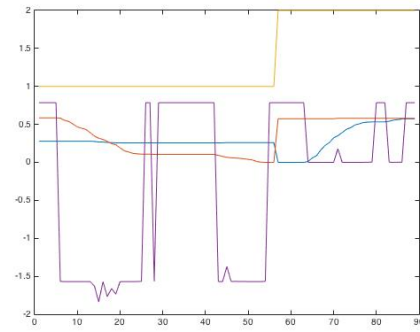


Figure 1.2: Extracted features, 1 is line down, 2 is line to the right

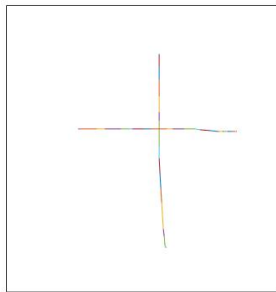


Figure 1.3: Features of + sign (first line down, then line to right)

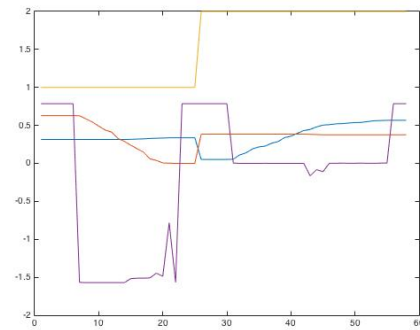


Figure 1.4: Extracted features, 1 is line down, 2 is line to the right