**Test**

The new model was trained on [RAF-DB](http://www.whdeng.cn/RAF/model1.html#dataset) dataset (12271 training images).

The following test result is from 3068 test images.

**Confusion Matrix**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Target  Predict | Surprise | Fear | Disgust | Happiness | Sadness | Anger | Neutral |
| Surprise | 276 | 5 | 5 | 11 | 6 | 3 | 23 |
| Fear | 14 | 39 | 3 | 4 | 7 | 2 | 5 |
| Disgust | 1 | 0 | 92 | 12 | 12 | 12 | 31 |
| Happiness | 5 | 0 | 13 | 1117 | 3 | 5 | 42 |
| Sadness | 1 | 1 | 16 | 20 | 384 | 8 | 48 |
| Anger | 3 | 1 | 11 | 10 | 4 | 127 | 6 |
| Neutral | 7 | 0 | 10 | 19 | 22 | 1 | 621 |

**Accuracy**:

Surprise: 89.9%

Fear: 84.8%

Disgust: 61.3%

Happiness: 93.6%

Sadness: 87.7%

Anger: 80.4%

Neutral: 80.0%

Mean accuracy: 86.6%