isseu / emotion-recognition-neural-networks

Emotion recognition using DNN with tensorflow

emotion-recognition tensorflow machine-learning deep-neural-networks convolutional-neural-networks

40 commits **1** branch **0** releases **4** contributors

isseu added images to readme — Latest commit `d7d7e71` on 4 Aug 2016

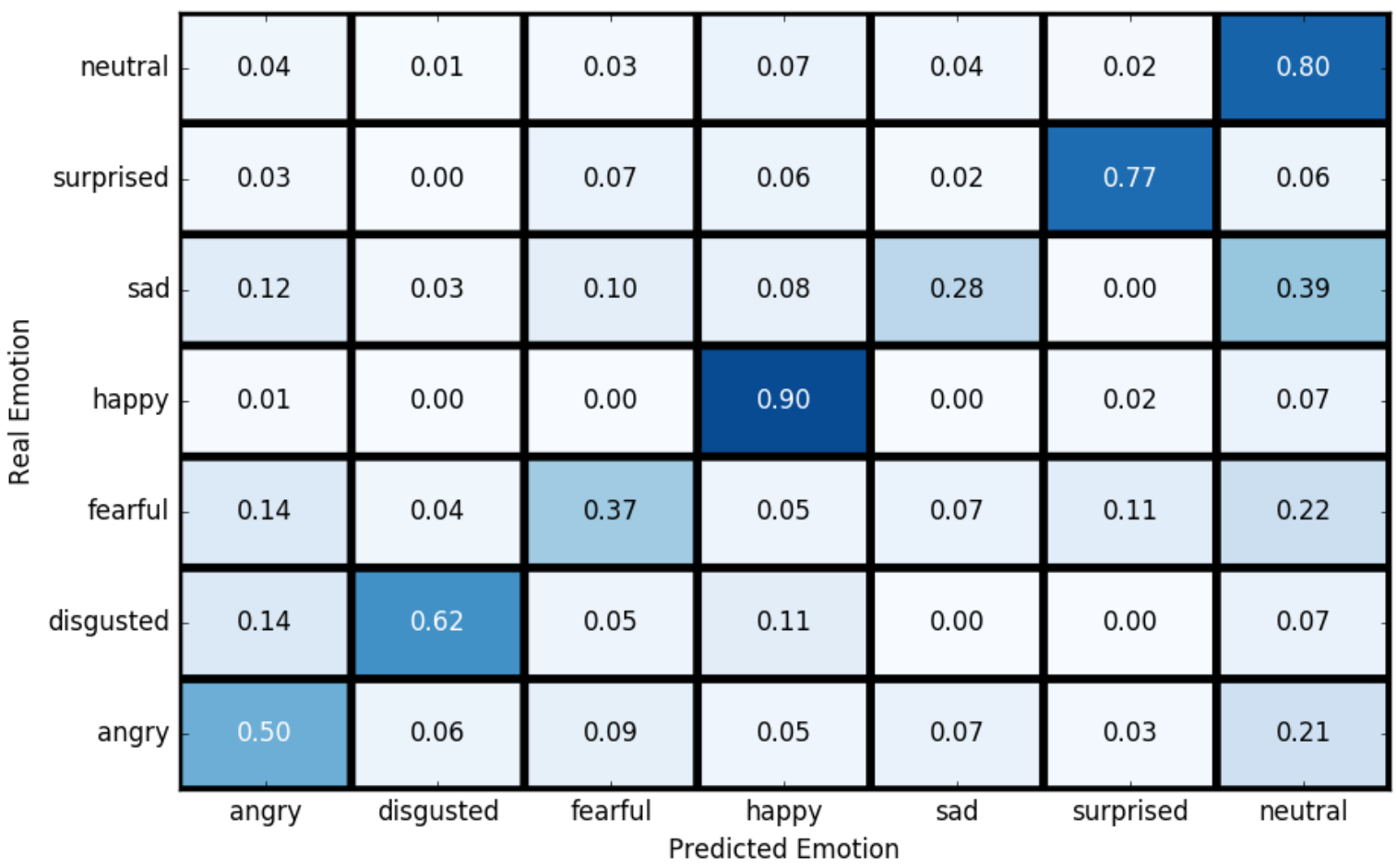
data	order files	a year ago
emojis	added emojis for live, and some changes for new dataset	a year ago
haarcascade_files	working partially but possible overfitting	a year ago
paper	added images for readme	a year ago
.gitignore	order files	a year ago
README.md	added images to readme	a year ago
constants.py	added paper and changes	a year ago
dataset_loader.py	order files	a year ago
emotion_recognition.py	fix url paper	a year ago
manual_poc.py	added paper and changes	a year ago
plot_emotion_matrix.py	added paper and changes	a year ago
poc.py	added paper and changes	a year ago

README.md

Emotion recognition with CNN

This repository is the out project about mood recognition using convolutional neural network for the course Seminar Neural Networks at TU Delft.

67% Accuracy



Dependencies

- NumPy
- Tensorflow
- TFLearn
- OpenCV

Dataset

We use the FER-2013 Faces Database, a set of 28,709 pictures of people displaying 7 emotional expressions (angry, disgusted, fearful, happy, sad, surprised and neutral).

You have to request for access to the dataset or you can get it on Kraggle.

Usage

```
$ python emotion_recognition.py poc
```

Paper

Link