6.867 Final Project Writeup

Vickie Ye and Alexandr Wang

Abstract

In this project, we compared different methods for facial expression recognition.

1 Introduction

- 1.1 PCA
- 1.2 Facial Landmark Detection
- 1.3 Convolutional Networks

2 Experimental Details

The dataset we used was taken from a Kaggle facial expression dataset.

3 Results and Analysis

References

- [1] Lawrence, S.; Giles, L.; Tsoi, A. C.; Back, A. D. (1997) "Face Recognition: A Convolutional Neural-Network Approach" Neural Networks, IEEE transactions on 8 (1):98-113
- [2] Matsugu, M.; Mori, K.; Mitari Y.; Kaneda Y. (2003) "Subject independent facial expression recognition with robust face detection using a convolutional neural network" Neural Networks 16 (5):555-559