MRSD Individual Lab Report 3 Sida Wang

Group name: Group G, RoboGrapher

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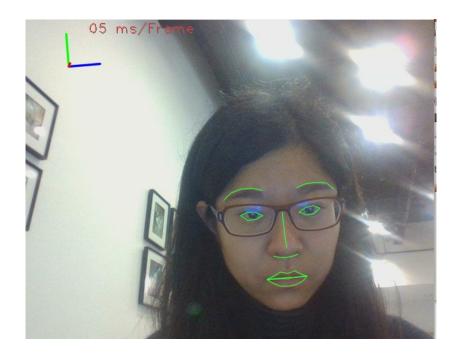
Individual Progress

1. Set up the working environment of Intraface

It took us long time to set up the working environment of Intraface. As the updated version of Intraface has been released about 3 weeks ago, and at that time, the Intraface people sent us the software. To some reason, there are some internal bugs in Intraface.

- (1) Several libraries have not been updated, so Intraface can not be used correctly.
- (2) Failed to exit from Intraface. And after modified the code, this bug has been solved. At first, we failed to use the function cv::waitKey to get the key ascii. And we fix this problem by do & operation with 0x00FF.
- 2. Started to learn bash language. Set up bash file to initialize Intraface after running it, it will make the working environment more convenient.
- 3. Start to read the code of the demo of Intraface.

Please refer to the figures in drawing 1.



adn: 4	1.76051e-07			
игр: (0.300592			
mo:				
eut: (0.5024			
ngr: !	5.94019e-13			
isg: (5.23227e-08			
app: 5	5.94019e-13			
adn: 1	1.14183e-06			
игр: (0.497599			
mo:				
eut: (0.503839			
ngr: 2	2.07978e-11			
isg: 1	1.58901e-07			
app: 2	2.07978e-11			
adn: 4	4.60018e-06			
игр: (0.496157			
mo:				
eut: (0.507963			
ngr: 4	4.24707e-12			
isg: !	5.81123e-09			
app: 4	4.24707e-12			
adn: 2	2.80362e-06			
urp: (0.492034			

Drawing 1: The demo of Intraface

Challenges

- 1. There are limited papers related to multi-camera facial expression recognition, so there is limited resources that we can refer to.
- 2. Turtlebots is 32-bit version, but our Ubuntu versions as well as Intraface are 64-bit, so version conversion is required.

Team work

- 1. Tiffany and I: Make Intraface works.
- 2. Rohit, Gauri: pan-tilt unit, make Turtlebots walk
- 3. Jimit: do research on multi-camera facial expression recognition

Future Plan

- 1. Start to use the camera we bought for Intraface facial expression recognition
- 2. Start work on multi-camera facial expression recognition