Report

Period: Nov. 7-13, 2014

Task: **Simulating and estimating multimodal emotion recognition using different multimodal emotion databases**

Subtasks: **SVM training and classification, Performing simple actions on NAO, Analyzing facial and vocal data**

1 Task 1

I have estimated the SVM binary classification performances for 'angry', 'fear', 'disgust', 'neutral' and 'surprise' emotions. I have also tried to write an algorithm for leave one sample out cross validation table. I have tried to compare my results of SVM recognition rate and accuracy to the same results of other researches done on the SAVEE database.

2 Task 2

Using Choregraph program perform simple action on the NAO humanoid robot.

3 Task 3

Analysing the facial and vocal emotion recognition by AV clips recorded on the Kinect camera.

Tasks for the Next Week

1 **I am planning to estimate the vocal emotion recognition accuracy by using data fusion techniques such as mean rule, and weighted sum rule.**
2 **Simulating the results of Multimodal Emotion Recognition of four and five categories by using ensemble of trees of binary SVM classifiers.**