# Report

**Period:** Sep. 26 - Oct 2, 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 explored Surrey Audio-Visual Expressed Emotion (SAVEE) Database. I analysed the vocal features of four male speakers recorded in the database. Each of these people express 15 sentence on each of the 7 emotion categories. I studied the characteristics of their audio signals when they are happy in the time domain. Also, I estimated pitch, pitch contour, intensity and energy of the voices of those 4 people using PRAAT program.

**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 Simulating the vocal data of 4 male speakers when they are sad from the SAVEE Database.**

**2 Simulating the results of Multimodal Emotion Recognition of four and five categories by using ensemble of trees of binary SVM classifiers.**