

## **Research Interest May 2017**

**Assist. Prof. Dr. Sertan Kaymak**

My research interests are in the areas of image and video analysis of face gestures, multimodal Human Computer Interaction and applied machine learning.

I have worked on head pose estimation using RGBD camera. In particular, captured images of rgb images and depth data are used as input to random regression forests for the calculation of the head pose location in the 3D space. The depth data is also investigated for the accuracy of the head pose estimation.

I have also worked on the appearance based gaze estimation. I have applied machine-learning methods in order to investigate the accurate gaze direction of a person. I have performed experiments for both frontal and under head pose variation situations to estimate the correct gaze direction.