8th International Workshop on Human Behavior Understanding

Face Analytics

Behavior Analysis for Smart Cars

15 May 2018 – Xi'An   in conjunction with IEEE FG'18

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Description

With development of computer vision and sensor technology, it becomes possible to analyze human behavior via various ways at different time-scales and at different levels of interaction and interpretation. Understanding human behavior automatically opens up enormous possibilities for human-computer interaction, with a potential of endowing the computers with a capacity to attribute meaning to users' attitudes, preferences, personality, social relationships, etc., as well as to understand what people are doing, the activities they have been engaged in, and their routines.

This workshop aims to inspect developments in selected areas where smarter computers that can sense human behavior have great potential to revolutionize the application domain. We ultimately seek to re-define the relationship between the computer and the interacting human, moving the computer from a passive observer role to a socially active participant role and enabling it to drive different kinds of interaction.

The 8th Int. Workshop on Human Behavior Understanding (HBU) and 2nd Int. Workshop on Automatic Face Analytics for Human Behavior Understanding (FaceHUB) are jointly organized at FG to gather researchers on behavior analysis and analytics. It will have two specific focus tracks dealing with **"face analytics"** and **"behavior analysis for smart cars".**

Topics

Track 1: Face analytics
Automatic deception detection
Deep learning models for facial analysis
Face alignment and fiducial point detection
Continuous facial behavior analysis
Emotion recognition in the wild
Temporal models for face analysis
Facial action unit detection and recognition
Group emotion analysis
Long-term behaviors and interaction
Micro-expression detection, recognition and understanding
Spontaneous affect databases
Cross-domain facial expression recognition
Spontaneous facial expression analysis
Multimodal emotion recognition

Track 2: Behavior analysis for smart cars
Advanced driver assistance systems, assisting elderly drivers
Behavior analysis for car safety
Car driving simulation analysis
Driver identification and biometrics
Driver's face monitoring, drowsiness and fatigue detection
Head pose and attention tracking
Human factors and driver personalization
Human-car interaction
In-car social signals: aggression, frustration, boredom
Multimodal interactive systems in cars
Posture assessment and comfort analysis

Important Dates

January 28, 2018: Submission of full papers (23:59pm PST)
February 20, 2018: Notification of acceptance
March 1, 2018: Camera-ready
May 15, 2018: Tentative workshop date

https://www.cmpe.boun.edu.tr/hbu/2018/