

5th International Workshop on Human Behavior Understanding

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When and where?

Friday, September 12, 2014

ETH Zurich E1.2

Description

With advances in pattern recognition and multimedia computing, it became possible to analyze human behavior via multimodal sensors, at different time-scales and at different levels of interaction and interpretation. This ability opens up enormous possibilities for multimedia and multimodal 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, their routines and lifestyles. Re-defining 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 has implications across multiple domains.

The HBU workshop aims to see where this change is taking us, and to inspect developments in areas where smarter computers that can sense human behavior have great potential to revolutionize the application domain. This workshop will gather researchers dealing with the problem of modeling human behavior under its multiple facets (expression of emotions, display of complex social and relational behaviors, performance of individual or joint actions, etc.), with the focus topic of **computer vision for complex social interactions**.

Schedule

9:00-9:10	Welcome	
9:10-9:40	Fei-Fei Li	Socially Aware Human Behavior Understanding
9:40-10:10	Marco Cristani	From groups to crowds: a social signal processing perspective
10:10-10:30	Yanhao Zhang, Shengping Zhang, Qingming Huang, and Thomas Serre “Learning Sparse Prototypes via Ensemble Coding Mechanisms for Crowd Perception”	
10:30-11:00	Coffee Break	
11:00-11:30	David Forsyth	TBA
11:30-12:00	Jim Rehg	Social Interactions from an Egocentric Perspective
12:00-12:20	Coert van Gemeren, Robby Tan, Ronald Poppe, and Remco Veltkamp “Dyadic interaction detection from pose and flow”	
12:20-13:40	Lunch break	
13:40-14:10	Nicu Sebe	Human Behavior Understanding in the Wild
14:10-14:40	Shai Avidan	The CrowdCam
14:40-15:00	Baris Evrim Demiroz, Albert Salah, and Lale Akarun “Coupling Fall Detection and Tracking in Omnidirectional Cameras”	
15:00-15:30	Coffee break	
15:30-16:00	Daniel Gatica-Perez	When the crowd watches the crowd: understanding conversational social video
16:00-16:30	Alessandro Vinciarelli	Social Signal Processing: Understanding Nonverbal Behaviour in Social Interactions
16:30-16:50	Aleksandra Cerekovic, Oya Aran, and Daniel Gatica-Perez “How do you like your virtual agent? Human-agent interaction experience through nonverbal features and personality traits”	

<http://www.cmpe.boun.edu.tr/hbu/2014/>