

## Overview of program

# Mon Oct 23rd - Tutorial / Workshop Day

Location/Time	Ballroom A	Minuet	Ballroom B	Ballroom C	Patio	Cavalier
9:00-10:30	Modeling Tutorial	DfAI	WASA	CBAR	ESSEM	Doctoral Consortium
10:30-11:00	Coffee Break					
11:00-12:30	Modeling Tutorial	DfAI	WASA	CBAR	ESSEM	Doctoral Consortium
12:30-14:00	Break					
14:00-15:30	Deep learning Tutorial	-	MHWPD	CBAR	ESSEM	Doctoral Consortium
15:30-16:00	Coffee Break					
16:00-17:30	Deep learning Tutorial	-	MHWPD	CBAR	ESSEM	Doctoral Consortium
18:00-	Welcome Reception					

### Tutorials:

1. Modeling Expressive and Communicative Agents, Catherine Pelachaud, Stacy Marsella and Yu Ding
2. Deep Learning for Affective Computing, Björn Schuller

### Workshops:

1. Context Based Affect Recognition (CBAR)
2. Design for Affective Intelligence (DfAI)
3. 3rd International Workshop on Emotion and Sentiment in Social and Expressive Media (ESSEM 2017): User Engagement and Interaction
4. 1st Workshop on Tools and Algorithms for Mental Health and Wellbeing, Pain, and Distress (MHWPD)
5. 2nd International Workshop on Automatic Sentiment Analysis in the Wild (WASA)

## Tuesday, Oct 24th - Day 1

8:45-9:15	Opening Ceremony Ballroom A+B+C	
9:15-10:15	Keynote by James Russell, Dimensional Representation of Emotion Ballroom A+B+C	
10:15-10:45	Coffee Break	
10:45-12:25	Best paper Session Ballroom A+B+C	
12:25-14:00	Break	
14:00-15:40	Interactions with Machines and Virtual Agents (oral 1) Ballroom A	Special Session: big unlabelled and unmatched data Ballroom B+C
15:40-16:00	Coffee break	
16:00-18:00	Poster Session 1 (Minuet) + DC posters (Patio)	

## Wed Oct 25th - Day 2

9:00-10:20	Affective Applications (Health) (oral 2) Ballroom A	Recognition of Affect (Face and Body) (oral 3) Ballroom B+C
10:20-10:50	Coffee Break	
10:50-11:50	Keynote by Tom Insel, Digital phenotyping: Can it reduce morbidity and mortality? Ballroom A+B+C	
11:50-14:00	Break - NIH/NSF event	
14:00-15:00	Panel session on "Affective Computing in Action" Ballroom A+B+C	
15:00-15:15	Coffee break	
15:15-17:15	Poster Session 2 (Minuet), demos (Patio)	
17:15-18:15	Recognition of Human Affect (oral 4) Ballroom A	Affect and Social Interaction (oral 5) Ballroom B+C
19:00-	Banquet: Jack Guenther Pavilion at the Briscoe Museum	

## Thu Oct 26th - Day 3

9:00 - 10:20	Databases for Affective Computing (oral 6) Ballroom A	Affective Applications (Health and Stress) (oral 7) Ballroom B+C
10:20 - 10:50	Coffee Break	
10:50 - 11:50	Keynote by Tanzeem Chaudhury: Making the tracking of mental health as easy as tracking steps Ballroom A+B+C	
11:50 - 13:30	Break	
13:30 - 15:00	AAAC Town hall meeting (public) Ballroom A+B+C	
15:00 - 15:30	Coffee break	
15:30-17:10	Recognition of Affect (Speech) (oral 8) Ballroom A	Psychology and Affect (oral 9) Ballroom B+C

# Detailed program

**Tuesday, October 24, 2017**

**08:45 - 09:15**

**Opening ceremony**

**Location: Ballroom**

Session chair: Carlos Busso, University of Texas, Dallas, USA

**09:15 - 10:15 (Tuesday, October 24, 2017)**

**Keynote: A dimensional representation of emotion, James Russell, Boston College, USA**

**Location: Ballroom**

Session Chair: Mohammad Soleymani, University of Geneva, Switzerland

**10:15 - 10:45**

**Coffee break**

**10:45 - 12:25 (Tuesday, October 24, 2017)**

**Best papers session**

**Location: Ballroom**

Session Chair: Dirk Heylen, University of Twente, the Netherlands

1. Recognizing Induced Emotions of Movie Audiences: Are Induced and Perceived Emotions the Same? Leimin Tian (The University of Edinburgh) , Michal Muszynski (University of Geneva) , Catherine Lai (University of Edinburgh) , Johanna Moore (The University of Edinburgh) , Theodoros Kostoulas (Bournemouth University) , Patrizia Lombardo (University of Geneva) , Thierry Pun (University of Geneva) , Guillaume Chanel (University of Geneva)
2. The Ordinal Nature of Emotions, Georgios Yannakakis (University of Malta) , Roddy Cowie (Queen's University Belfast) , Carlos Busso (UT Dallas)
3. Decoding the Perception of Sincerity in Written Dialogues, Codruta Garlea (UIUC) , Roxana Girju (UIUC)
4. Automated Video Interview Judgment on a Large-Sized Corpus Collected Online, Lei Chen (Educational Testing Service) , Ru Zhao (University of Rochester) , Chee Wee Leong (Educational Testing Service) , Blair Lehman (Educational Testing Service) , Gary Feng (Educational Testing Service) , Mohammed (Ehsan) Hoque (University of Rochester)
5. Smiling from Adolescence to Old Age: A Large Observational Study -- Daniel McDuff, Microsoft Research

**14:00 - 15:40 (Tuesday, October 24, 2017)**

**Oral session 1**

**Interactions with Machines and Virtual Agents**

**Location: Ballroom A**

Session Chair: Joost Broekens, TU Delft, the Netherlands

1. Towards Modeling Agent Negotiators by Analyzing Human Negotiation Behavior, Yuyu Xu (Northeastern University) , Pedro Sequeira ( Northeastern University) , Stacy Marsella (Northeastern University)
2. Toward Affect-Sensitive Virtual Human Tutors: The Influence of Facial Expressions on Learning and Emotion, Nicholas Mudrick (North Carolina State University) , Jon Rowe , Michelle Taub (North Carolina State University) , James Lester (North Carolina State University) , Roger Azevedo (North Carolina State University)
3. Perceptual Enhancement of Emotional Mocap Head Motion: An Experimental Study, Yu Ding (University of Houston) , Lei Shi (University of Houston) , Zhigang Deng (University of Houston)
4. Emotional Responses of Vibrotactile-Thermal Stimuli: Effects of Constant-Temperature Thermal Stimuli, Yongjae Yoo (Pohang University of Science and Technology (POSTECH)) , Hojin Lee (POSTECH) , Hyejin Choi (POSTECH) , Seungmoon Choi (Pohang University of Science and Technology)
5. Exploring Affection-Oriented Virtual Pet Game Design Strategies in VR, Chaolan Lin (IUPUI) , Travis Faas , Erin Brady (Indiana University)

**14:00 - 15:40 (Tuesday, October 24, 2017)**

**Special session on big unlabelled and unmatched data:**

**Location: Ballroom B+C**

Session Chair: Björn Schuller, University of Passau/Imperial College, Germany/UK

1. Multimodal Autoencoder: A Deep Learning Approach to Filling In Missing Sensor Data and Enabling Better Mood Prediction, Natasha Jaques (MIT Media Lab) , Sara Taylor (MIT Media Lab) , Akane Sano (MIT) , Rosalind Picard (MIT)
2. Hand2Face: Automatic Synthesis and Recognition of Hand Over Face Occlusions, Behnaz Nojavanasghari (University of Central Florida) , Charles Hughes (University of Central Florida) , Tadas Baltrusaitis (Carnegie Mellon) , Louis-Philippe Morency (Carnegie Mellon University)
3. Automatic Emotional Spoken Language Text Corpus Construction from Written Dialogs in Fictions, Jinkun CHEN (Sun Yat-sen University) , Cong Liu (Sun Yat-sen University) , Ming Li
4. GIFGIF+: Collecting Emotional Animated GIFs with Clustered Multi-Task Learning, Weixuan Chen (MIT) , Ognjen Rudovic (Massachusetts Institute of Technology) , Rosalind Picard (MIT)
5. An Exploratory Study of Population Differences based on Massive Database of Physiological Responses to Music, Wei Huang (Virginia Tech) , Benjamin Knapp (Virginia Tech)

**15:40 - 16:00**

**Coffee break**

**16:00 - 18:00 (Tuesday, October 24, 2017)**

**Doctoral consortium posters**

**Location: Patio**

Session Chair: Nadia Bianchi-Berthouze, UCL, UK

1. CNN based 3D Facial Expression Recognition Using Masking and Landmark Features  
Huiyuan Yang, Binghamton University-SUNY; Lijun Yin, "University of Binghamton, UK"
2. Reminiscence Therapy Improvement using Emotional Information Soraia Meneses  
Alarcão, LASIGE
3. Perceived Emotion from Images through Deep Neural Networks, Alex  
Hernández-García, University of Osnabrück
4. Avatar and Participant Gender Differences in the Perception of Uncanniness of Virtual  
Humans Jacqueline Bailey, University of Newcastle
5. Learning based Visual Engagement and Self-Efficacy Svati Dhamija, University of  
Colorado Colorado Springs
6. Automatic Personality Assessment in the Wild, Amanjot Kaur, IIT Ropar
7. Wear Your Heart on Your Sleeve Visible Psychophysiology for Contextualized  
Relaxation Adam Hair, Texas A&M University
8. Automated Mental Stress Recognition through Mobile Thermal Imaging Youngjun  
Cho, University College London
9. Nonverbal Conversation Expressions Processing for Human-Agent Interactions Kevin  
El Haddad, University of Mons
10. Dynamic Emotion Transitions Based on Emotion Hysteresis, Yu Hao, Cornell University
11. Towards More Meaningful Interactive Narrative with Intelligent Affective Characters  
Kenneth Chen, Drexel University
12. Temporal Patterns of Facial Expression in Deceptive and Honest Communication,  
Taylan Sen, University of Rochester

**16:00 - 18:00 (Tuesday, October 24, 2017)**

**Poster session 1**

**Location: Minuet**

Session Chair: Sidney D'Mello, University of Colorado, USA

1. Comparing Empathy Perceived by Interlocutors in Multiparty Conversation and External  
Observers, Shiro Kumano (NTT) , Ryo Ishii (Nippon Telegraph and Telephone  
Corporation) , Kazuhiro Otsuka (Nippon Telegraph and Telephone Corporation)
2. Processing Negative Emotions Through Social Communication: Multimodal Database  
Construction and Analysis, Nurul Lubis (Nara Institute of Science and ) , Michael Heck  
(Nara Institute of Science and Technology) , Sakriani Sakti (Nara Institute of Science

and Technology) , Koichiro Yoshino (Nara Institute of Science and Technology) , Satoshi Nakamura (Nara Institute of Science and Technology)

3. Discovering Gender Differences in Facial Emotion Recognition via Implicit Behavioral Cues, Maneesh Bilalpur (International Institute of Information Technology) , Seyed Mostafa Kia (Radboud University) , Tat-Seng Chua (National University of Singapore) , Ramanathan Subramanian (Illinois at Singapore)
4. Are You Stressed? Your Eyes and the Mouse Can Tell, Jun Wang (HK Polytechnic University) , Michael Xuelin Huang (Max Planck Institute for Informatics) , Grace Ngai (HK Polytechnic University) , Hong-va Leong (HK Polytechnic University)
5. Towards General Models of Player Affect, Elizabeth Camilleri (University of Malta) , Georgios Yannakakis (University of Malta) , Antonios Liapis ( University of Malta)
6. A Bootstrapped Multi-View Weighted Kernel Fusion Framework for Cross-Corpus Integration of Multimodal Emotion Recognition, Chun-min Chang (Department of Electrical Engineering, National Tsing Hua University) , Bo-Hao Su (Department of Electrical Engineering, National Tsing Hua University) , Shih-Chen Lin (Department of Electrical Engineering, National Tsing Hua University) , Jeng-Lin Li (Department of Electrical Engineering, National Tsing Hua University) , Chi-Chun Lee (National Tsing Hua University)
7. Facial Action Units Detection Under Pose Variations Using Deep Regions Learning, Asem Ali (UNIVERSITY OF LOUISVILLE) , Islam Alkabbany (UNIVERSITY OF LOUISVILLE) , Amal Farag , Ian Bennett (The Spirituality Network, Inc.) , Aly Farag (UNIVERSITY OF LOUISVILLE)
8. Exploring Moral Conflicts in Speech: Multidisciplinary Analysis of Affect and Stress, Minha Lee (TU Eindhoven) , Jaebok Kim (University of Twente) , Khiet Truong (University of Twente) , Yvonne de Kort (TU Eindhoven) , Femke Beute (TU Eindhoven) , Wijnand IJsselsteijn (TU Eindhoven)
9. Predicting Speaker Recognition Reliability by Considering Emotional Content, Srinivas Parthasarathy (The University of Texas at Dallas) , Carlos Busso (UT Dallas)
10. Comparing Virtual Reality with Computer Monitors as Rating Environments for Affective Dimensions in Social Interactions, Gary McKeown (Queen's University Belfast) , Christine Spencer (Queen's University Belfast) , Alex Patterson (Queen's University Belfast) , Thomas Creaney (Queen's University Belfast) , Damien Dupre ( Queen's University Belfast)
11. Heart Rate Estimation From Facial Videos For Depression Analysis, Aamir Mustafa (National Institute of Technology, Srinagar) , Shalini Bhatia (University of Canberra) , Munawar Hayat ( University of Canberra) , Roland Goecke (University of Canberra)
12. Modeling variable length phoneme sequences - a step towards linguistic information for speech emotion recognition in wider world, Kalani Wataraka Gamage (University of New South Wales) , Vidhyasaharan Sethu (University of New South Wales) , Eliathamby Ambikairajah (UNSW Sydney)
13. The Dance of Emotion: Demonstrating Ubiquitous Understanding of Human Motion and Emotion in Support of Human Computer Interaction, Caitlin Sikora (NYU) , Winslow Burleson (NYU)

14. The effect of personality trait, age, and gender on the performance of automatic speech valence recognition, Hesam Sagha (audEERING GmbH) , Jun Deng (audEERING) , Björn Schuller (Technical University of Munich)
15. Emotion Detection Using Noninvasive Low Cost Sensors, Daniela Girardi (University of Bari) , Filippo Lanubile (University of Bari) , Nicole Novielli (University of Bari)
16. CAST a database: Rapid targeted large-scale big data acquisition via small-world modelling of social media platforms, Shahin Amiriparian (University of Passau) , Sergey Pugachevskiy (University of Passau) , Nicholas Cummins ( University of Passau) , Simone Hantke (Universität Passau) , Jouni Pohjalainen (University of Passau) , Gil Keren (University of Passau) , Björn Schuller (Technical University of Munich)
17. Multiple users' emotion recognition: improving performance by joint modeling of affective reactions, Guillaume Chanel (University of Geneva) , Sunny Avry (University of Geneva) , Gaelle Molinari (Unidistance) , Mireille Bétrancourt (University of Geneva) , Thierry Pun (University of Geneva)
18. Noninvasive estimation of cognitive status in mild traumatic brain injury using speech production and facial expression, Adam Lammert (MIT Lincoln Laboratory) , James Williamson (MIT Lincoln Lab) , Austin Hess (MIT Lincoln Laboratory) , Tejash Patel (MIT Lincoln Laboratory) , Thomas Quatieri (MIT Lincoln Lab.) , Hui Jun Liao (Brigham & Women's Hospital) , Alex Lin (Brigham & Women's Hospital) , Kristin Heaton (US Army Research Institute of Environmental Medicine)

**Wednesday, October 25, 2017**

**9:00 - 10:20**

**Oral session 2**

**Location: Ballroom A**

**Affective Applications (Health):**

Session Chair: Adam Lammert, MIT Lincoln Lab, USA

1. Visual Attention in Schizophrenia: Eye Contact and Gaze Aversion during Clinical Interactions -- Alexandria Vail, Carnegie Mellon University; Tadas Baltrušaitis, Carnegie Mellon; Luciana Pennant, Harvard Medical School; Elizabeth Liebson, Harvard Medical School; Justin Baker, Harvard Medical School; Louis-Philippe Morency, Carnegie Mellon University
2. Embedding Stacked Bottleneck Vocal Features in a LSTM Architecture for Automatic Pain Level Classification during Emergency Triage -- Fu-Sheng Tsai, Department of Electrical Engineering, National Tsing Hua University; Yi-Ming Weng, Department of Emergency Medicine, Chang Gung Memorial Hospital; Chip-Jin Ng, Department of Emergency Medicine, Chang Gung Memorial Hospital; Chi-Chun Lee, National Tsing Hua University
3. What Really Matters - An Information Gain Analysis of Questions and Reactions in Automated PTSD Screenings -- Torsten Wörtwein, Karlsruhe Institute of Technol; Stefan Scherer, University of Southern California
4. Modeling Doctor-Patient Communication with Affective Text Analysis -- Taylan Sen, University of Rochester; Mohammad Rafayet Ali, University of Rochester; Ronald



Epstein, University of Rochester; Paul Duberstein, University of Rochester; Mohammed (Ehsan) Hoque, University of Rochester

**9:00 - 10:20 (Wednesday, October 25, 2017)**

**Oral session 3**

**Location: Ballrooms B+C**

**Recognition of Affect (Face and Body):**

Session Chair: Daniel McDuff, Microsoft Research, USA

1. Automated Mood-aware Engagement Prediction -- Svati Dhamija, UCCS; Terrance Boulton, University of Colorado Colorado Springs
2. Automatic AUs Detection in Infants Using Convolutional Neural Network -- Zakia Hammal, Carnegie Mellon University; Chu Wen-Sheng, Carnegie Mellon University; Jeffrey Cohn, University of Pittsburgh; Carrie Heike, (Seattle Children's Hospital); Matthew Speltz, (Seattle Children's Hospital)
3. Manual and Automatic Measures Confirm - Intranasal Oxytocin Increases Facial Expressivity -- Catherine Neubauer, ARL; Sharon Mozgai, USC ICT; Brandon Chuang, UCSF; Josh Woolley, UCSF; Stefan Scherer, University of Southern California
4. Local-Global Ranking for Facial Expression Intensity Estimation, Tadas Baltrusaitis (Carnegie Mellon) , Liandong Li (Beijing Normal University) , Louis-Philippe Morency (Carnegie Mellon University)

**10:20 - 10:50**

**Coffee break**

**10:50 - 11:50 (Wednesday, October 25, 2017)**

**Keynote: Digital phenotyping: Can it reduce morbidity and mortality?, Tom Insel, Mindstrong Health, USA**

**Location: Ballroom**

Session Chair: Emily Mower Provost, University of Michigan, USA

**14:00 - 15:00**

**Panel: Affective Computing in Action**

**Location: Ballroom**

Moderator: Stefan Scherer, USC, USA

Panelists: Tom Insel, Rosalind W. Picard, Jennifer Healey, Jim Harper, Mary Czerwinski

**15:00 - 15:15**

**Coffee break**

**15:15 - 17:15 (Wednesday, October 25, 2017)**

**Poster session 2**

## Location: Minuet

Session Chair: Viviana Patti, Università di Torino, Italy

1. Computational model of idiosyncratic perception of others' emotions, Shiro Kumano (NTT) , Ryo Ishii (Nippon Telegraph and Telephone Corporation) , Kazuhiro Otsuka (Nippon Telegraph and Telephone Corporation)
2. Robust Emotion Recognition from Low Quality and Low Bit Rate Video: A Deep Learning Approach, Bowen Cheng , Zhangyang Wang (TAMU) , Zhaobin Zhang , Zhu Li , Ding Liu , Jianchao Yang , Shuai Wang , Thomas Huang (UIUC)
3. Comparing Models for Gesture Recognition of Children's Bullying Behaviors, Michael Tsang (U of Southern California) , Vadim Korolik (University of Southern California) , Stefan Scherer (University of Southern California) , Maja Mataric (University of Southern California)
4. Improved Facial Expression Recognition Method Based on ROI Deep Convolutional Neural Network, Xiao Sun (Hefei University of Technology) , Man Lv , Changqin Quan (Kobe University) , Fuji Ren
5. Objective Assessment of Depressive Symptoms with Machine Learning and Wearable Sensors Data, Asma Ghandeharioun (MIT) , Szymon Fedor (MIT) , Lisa Sangermano (MGH) , Dawn Ionescu (MGH) , Jonathan Alpert (MGH) , Chelsea Dale (MGH) , David Sontag (MIT) , Rosalind Picard (MIT)
6. Photorealistic Facial Expression Synthesis by the Conditional Difference Adversarial Autoencoder, YUQIAN ZHOU (HKUST) , Bertram SHI (ECE department of HKUST)
7. Facial Action Unit Intensity Estimation and Feature Relevance Visualization with Random Regression Forests, Philipp Werner (University of Magdeburg) , Sebastian Handrich , Ayoub Al-Hamadi (University of Magdeburg)
8. A Taxonomy of Mood Research and Its Applications in Computer Science, Helma Torkamaan , Jürgen Ziegler (University of Duisburg-Essen)
9. An Investigation into Three Visual Characteristics of Complex Scenes that Evoke Human Emotion, Xin Lu (Penn State University) , Reginald Adams , Jia Li , Michelle Newman , James Wang (Penn State University)
10. Toward Active and Unobtrusive Engagement Assessment of Distance Learners, Brandon Booth (University of Southern Califor) , Asem Ali (UNIVERSITY OF LOUISVILLE) , Shrikanth Narayanan (University of Southern California) , Ian Bennett (The Spirituality Network, Inc.) , Aly Farag (UNIVERSITY OF LOUISVILLE)
11. DCNN and DNN Based Multi-modal Depression Recognition, Le Yang (Northwestern polytechnical uni) , Dongmei Jiang (Northwestern Polytechnical University(NPU)) , Wenjing Han (Samsung R&D Institute of China - Beijing (SRC-B)) , Hichem Sahli (Vrije Universiteit Brussel(VUB))
12. Investigating Gender Differences in Temporal Dynamics during an Iterated Social Dilemma: an Automatic Analysis Using Networks, Giota Stratou (USC-ICT) , Rens Hoegen (USC-ICT) , Gale Lucas (ICT) , Jonathan Gratch (University of Southern California)

13. Spontaneous and posed smile recognition based on spatial and temporal patterns of facial EMG, Monica Perusquía Hernández (University of Tsukuba) , Mazakasu Hirokawa , Kenji Suzuki
14. Using Natural Language Processing Tools to Develop Complex Models of Student Engagement, Stefan Slater (University of Pennsylvania) , Jaclyn Ocumpaugh (University of Pennsylvania) , Ma. Victoria Almeda (Teachers College Columbia University) , Laura Allen (Arizona State University) , Neil Heffernan (Worcester Polytechnic Institute) , Ryan Baker (University of Pennsylvania)
15. Affect Recognition in an Interactive Gaming Environment using Eye Tracking, Ashwaq ALHARGAN (University of Birmingham) , Neil Cooke (University of Birmingham) , Tareq Binjammaz (DMU)
16. Effects of Valence and Arousal on Working Memory Performance in Virtual Reality Gaming, Daniel Gabana (Queen Mary University of London) , Laurissa Tokarchuk (QMUL) , Emily Hannon (QMUL) , Hatice Gunes ( University of Cambridge)
17. Computational Analysis of Valence and Arousal in Virtual Reality Gaming using Lower Arm Electromyograms, Iliia Shumailov (University of Cambridge) , Hatice Gunes ( University of Cambridge)
18. Emo-Soundscapes: A Dataset for Soundscape Emotion Recognition, Jianyu Fan (Simon Fraser University) , Miles Thorogood , Philippe Pasquier (Simon Fraser University)

**15:15 - 17:15 (Wednesday, October 25, 2017)**

**Demonstrations**

**Location: Patio**

Session Chair: Ehsan Hoque, University of Rochester, USA

1. VoicePlay - An Affective Sports Game Operated by Speech Emotion Recognition based on the Component Process Model, Gerhard Hagerer, audEERING GmbH; Florian Eyben, audEERING; Dagmar Schuller, audEERING GmbH; Klaus R. Scherer, audEERING GmbH; Bjoern Schuller, audEERING
2. Exploring universal expression of emotion with vibrotactile patterns composed using dynamic features, Valtteri Wikström, University of Helsinki; Tommi Makkonen, University of Helsinki; Katri Saarikivi, University of Helsinki
3. EmoTxt: A Toolkit for Emotion Recognition from Text, Fabio Calefato, University of Bari Aldo Moro; Filippo Lanubile, University of Bari Aldo Moro; Nicole Novielli, University of Bari Aldo Moro, Italy
4. Self-Explanations of a Cognitive Agent by Citing Goals and Emotions, Frank Kaptein, TU Delft; Joost Broekens, TU Delft; Koen Hindriks, TU Delft The Netherlands; Mark Neerincx, TU Delft
5. ThermSense: Smartphone-based Breathing Sensing Platform using Noncontact Low-Cost Thermal Camera, Youngjun Cho, University College London; Nadia Berthouze, University College London; Simon Julier, UCL; Nicolai Marquardt, University College London
6. Deep Breaths: An Internally- and Externally-Paced Deep Breathing Guide Adam Hair, Texas A&M University; Ricardo Gutierrez-Osuna, Texas A&M University

7. A Web-based System for Soundscape Emotion Recognition, Jianyu Fan (Simon Fraser University), Miles Thorogood (Simon Fraser University), Philippe Pasquier (Simon Fraser University)
8. "Time to Laugh!" - Deep Neural Network-based Laughter Tracking on Smartwatches, Gerhard Hagerer (audEERING GmbH and University of Passau), Nicholas Cummins (University of Passau), Florian Eyben (audEERING GmbH), Björn Schuller (audEERING GmbH and University of Passau)
9. Emotionally-Immersive Tele-Learning (EITL), Asem M. Ali (University of Louisville), Islam Alkabbany (University of Louisville), Amal Farag (TSN Inc.), Ian Bennett (TSN Inc.), Aly Farag (University of Louisville)

**17:15 - 18:15 (Wednesday, October 25, 2017)**

**Oral session 4**

**Location: Ballroom A**

**Recognition of Human Affect**

Session Chair: Georgios N. Yannakakis, University of Malta, Malta

1. Multimodal Classification of Driver Glance -- Daniel Baumann , University of Cambridge; Marwa Mahmoud, University of Cambridge; Peter Robinson, University of Cambridge
2. Evaluating Effectiveness of Smartphone Typing as an Indicator of User Emotion -- Surjya Ghosh, IIT Kharagpur; Niloy Ganguly, Indian Institute of Technology Kharagpur; Bivas Mitra, Indian Institute of Technology Kharagpur; Pradipta De, Georgia Southern University USA
3. Formulating Emotion Perception as a Probabilistic Model with Application to Categorical Emotion Classification -- Reza Lotfian, The University of Texas at Dallas; Carlos Busso, UT Dallas

**17:15 - 18:15 (Wednesday, October 25, 2017)**

**Oral session 5**

**Location: Ballrooms B+C**

**Affect and Social Interaction**

Session Chair: Khiet Truong, University of Twente, the Netherlands

1. Weighted Geodesic Flow Kernel for Interpersonal Mutual Influence Modeling and Emotion Recognition in Dyadic Interactions -- Zhaojun Yang, University of Southern California; Boqing Gong, University of Central Florida; Shrikanth Narayanan, University of Southern California
2. Exploring Sparse Representation Measures of Physiological Synchrony for Romantic Couples -- Theodora Chaspari, USC; Adela Timmons, University of Southern California; Brian Baucom, University of Utah; Laura Perrone, Stony Brook University; Katherine Baucom, University of Utah; Panayiotis Georgiou, University of Southern California; Gayla Margolin, University of Southern California; Shrikanth Narayanan, University of Southern California

3. Refactoring Facial Expressions: an Automatic Analysis of Natural Occurring Facial Expressions in Iterated Social Dilemmas -- Giota Stratou, USC-ICT; Job Van Der Schalk, Cardiff; Rens Hoegen, USC-ICT; Jonathan Gratch, University of Southern California

Thursday, October 26, 2017

**09:00 - 10:20**

**Oral session 6**

**Databases for Affective Computing**

**Location: Ballroom A**

Session Chair: Jeff Cohn, CMU/U Pittsburgh, USA

1. NAA A Multimodal Database of Negative Affect and Aggression, Iulia Lefter (Delft University of Technology) , Catholijn Jonker (Delft University of Technology) , Stephanie Klein Tuentje (University Medical Center Groningen) , Stefan Bogaerts (Tilburg University) , wim Veling (University Medical Center Groningen)
2. RankTrace Relative and Unbounded Affect Annotation, Phil Lopes (University of Geneva) , Georgios Yannakakis (University of Malta) , Antonios Liapis ( University of Malta)
3. NNIME The NTHU-NTUA Chinese Interactive Multimodal Emotion Corpus, Huang-Cheng Chou (Department of Electrical Engineering, National Tsing Hua University) , Wei-Cheng Lin (Department of Electrical Engineering, National Tsing Hua University) , Lien-Chiang Chang (Department of Drama, National Taiwan University of Arts) , Chyi-Chang Li (Graduate School of Arts and Humanities, National Taiwan University of Arts) , Hsi-Pin Ma (Department of Electrical Engineering, National Tsing Hua University) , Chi-Chun Lee (National Tsing Hua University)
4. Response to Name: A Dataset and A Multimodal Machine Learning Framework towards Autism Study, Wenbo Liu (Carnegie Mellon University) , Tianyan Zhou , Chenghao Zhang , Xiaobing Zou (The Third Affiliated hospital, Sun Yat-sen University) , Ming Li

**09:00 - 10:20 (Thursday, October 26, 2017)**

**Oral session 7**

**Affective Applications (health and stress)**

**Location: Ballroom B+C**

Session Chair: Thomas Quatieri, MIT Lincoln Lab, USA

1. Stress Measurement from Tongue Color Imaging, Javier Hernandez ( MIT) , Craig Ferguson (MIT) , Akane Sano (MIT) , Weixuan Chen (MIT) , Weihui Li (Wentworth Institute of Technology) , Albert Yeung (Harvard Medical School) , Rosalind Picard (MIT)
2. Designing Opportune Stress Intervention Delivery Timing using Multi-modal Data, Akane Sano (MIT) , Paul Johns (Microsoft Research) , Mary Czerwinski (Microsoft Research)
3. Toward Automatic Detection of Acute Stress Relevant Nonverbal Behaviors and Impact of Personality Traits, David Antonio Gómez Jáuregui (ESTIA) , Carole Castanier

(Université Paris-Sud) , Bingbing Chang (Université Paris-Sud) , Michaël Val (Université Paris-Sud) , François Cottin (Université Paris-Sud) , Christine Le Scanff , Jean-Claude Martin (LIMSI)

4. DeepBreath Deep Learning of Breathing Patterns for Automatic Stress Recognition using Low-Cost Thermal Imaging in Unconstrained Settings, Youngjun Cho (University College London) , Nadia Bianchi-Berthouze ( UCL ) , Simon Julier (University College London)

**10:50 - 11:50 (Thursday, October 26, 2017)**

**Keynote: Making the tracking of mental health as easy as tracking steps, Tanzeem Chaudhury, Cornell University and HealthRhythms Inc., USA**

**Location: Ballroom**

Session Chair: Stacy Marsella, Northeastern University, USA

**13:30 - 15:00 (Thursday, October 26, 2017)**

**AAAC Town hall (public event)**

**Location: Ballroom**

**Session Chairs: Dirk Heylen, University of Twente, the Netherlands, Hatice Gunes, Cambridge University, UK**

**15:30 - 17:10 (Thursday, October 26, 2017)**

**Oral session 8**

**Recognition of Affect (Speech)**

**Location: Ballroom A**

Session Chair: Chi-Chun (Jeremy) Lee, National Tsing Hua University, Taiwan

1. Segment-Based Speech Emotion Recognition Using Recurrent Neural Networks, Efthymios Tzinis (NTUA, Athens, Greece) , Alexandros Potamianos (NTUA)
2. Speech emotion recognition in noisy and reverberant environments, Panikos Heracleous (KDDI Research, Inc) , Keiji Yasuda , Masayuki Hashimoto , Fumiaki Sugaya , Akio Yoneyama
3. Aggression Recognition Using Overlapping Speech, Iulia Lefter (Delft University of Technology) , Catholijn Jonker (Delft University of Technology)
4. LEARNING SPECTRO-TEMPORAL FEATURES WITH 3D CNNs FOR SPEECH EMOTION RECOGNITION, Jaebok Kim (University of Twente) , Khiet Truong (University of Twente) , Gwenn Englebienne (University of Twente) , Vanessa Evers (University of Twente)
5. Vocal markers of motor, cognitive, and depressive symptoms in Parkinson's disease, Kara Smith (University of Massachusetts Me) , James Williamson (MIT Lincoln Lab) , Thomas Quatieri (MIT Lincoln Lab.)

**15:30 - 17:10 (Thursday, October 26, 2017)**

## **Oral session 9**

### **Psychology and Affect**

**Location:: Ballroom B+C**

Session Chair: Gary McKeown, Queen's University Belfast, UK

1. How Different Identities Affect Cooperation, Wasif Khan (University of Waterloo) , Jesse Hoey (University of Waterloo)
2. Assessing Personality Through Objective Behavioral Sensing, Hui Wang (Northeastern University) , Stacy Marsella (Northeastern University)
3. The ABC of MOOCs Affect and its Inter-play with Behaviour and Cognition, Shazia Afzal (IBM Research) , Bikram Sengupta (IBM Research) , Munira Syed (University of Notre Dame) , Nitesh Chawla (University of Notre Dame) , Alex Ambrose (University of Notre Dame) , Malolan Chetlur (IBM Research)
4. Emotion-Augmented Machine Learning Overview of an Emerging Domain, Harald Strömfelt (Imperial College London) , Yue Zhang (Imperial College London) , Björn Schuller (Technical University of Munich)
5. Grounded emotions, Vicki Liu (University of Michigan) , Carmen Banea (University of Michigan) , Rada Mihalcea (University of Michigan)