FG 2013 – Main Conference Schedule Overview

Tuesday, 23 April		Wednesday, 24 April		Thursday, 25 April	
08:20-08:30	Opening Session	08:30-09:30	Keynote: Judee Burgoon	08:30-09:30	Keynote: Jessica Hodgins
08:30-09:30	Keynote: Gregory Abowd	09:30-10:30	Affect & Expression I	09:30-10:30	Body Motion Analysis & Action Recognition I
09:30-10:30	Face Recognition	10:30-11:00	Coffee break	10:30-11:00	Coffee break
10:30-11:00	Coffee break	11:00-12:00	Affect & Expression II	11:00-12:00	Body Motion Analysis & Action Recognition II
11:00-12:00	Facial Biometrics	12:00-12:30	Poster Spotlights	12:00-12:30	Poster Spotlights
12:00-12:30	Poster Spotlights				
12:30-14:00	Lunch Break	12:30-14:00	Lunch Break	12:30-14:00	Lunch Break
	Doctoral Consortium		FG 2013 Steering Committee Lunch		
14:00-15:00	Face Technology Applications I	14:00-15:00	Face Detection, Tracking & Alignment	14:00-15:00	Special Session on Sign Language
15:00-16:00	Face Technology Applications II	15:00-16:00	Special Session on Micro-Expression	15:00-16:00	Special Session on FG in Medicine
16:00-16:15	Coffee break	16:00-16:15	Coffee break	16:00-16:15	Coffee break
16:15-17:00	Poster Spotlights	16:15-17:00	Poster Spotlights	16:15-17:00	Poster Spotlights
17:00-19:00	Poster Session I	17:00-19:00	Poster Session II	17:00-19:00	Poster Session III
08:30-19:00	Demo Session I	08:30-19:00	Demo Session II	08:30-19:00	Demo Session III
19:00-21:00	Reception	19:30-23:00	Banquet		

FG 2013 – Schedule at a Glance

Monday, 22 April	Tuesday, 23 April	Wednesday, 24 April	Thursday, 25 April	Friday, 26 April
Tutorials / 3D Face Biometrics	Main conference	Main conference	Main conference	EmoSPACE / Vision(s) on Deception and Non-cooperation
Lunch Break	Doctoral Consortium / Lunch Break	FG 2013 Steering Committee Lunch / Lunch Break	Lunch Break	Lunch Break
	Main conference	Main conference	Main conference	EmoSPACE / Vision(s) on Deception and Non-cooperation
	Reception	Banquet		

FG 2013 Main Conference
Preliminary Program

Tuesday, 23 April 2013

08:20—08:30
Opening Session: Welcome to Face and Gesture 2013
Session Chairs: Rama Chellappa (Univ. of Maryland), Xilin Chen (Chinese Academy of Sciences), and Qiang Ji (Rensselaer Polytechnic Institute)

08:30—09:30
Keynote Speaker: Gregory Abowd, Georgia Institute of Technology
Talk Title: Computing and Autism: How a real problem drives multimodal activity recognition research
Session Chair: Stan Sclaroff (Boston Univ.)

09:30—10:30
Session 1: Face Recognition
Session Chair: Stefanos Zafeiriou (Imperial College London)

1. **Discriminative Dictionary Learning with Low-Rank Regularization for Face Recognition**. Liangyue Li, Northeastern University; Sheng Li, Northeastern University; Yun Fu, Northeastern University

2. **Logarithm Gradient Histogram: A General Illumination Invariant Descriptor for Face Recognition.** Jun-Yong Zhu, Sun Yat-sen University; Wei-Shi Zheng, Sun Yat-sen University; Jianhuang Lai, Zhongshan University

3. **Countermeasure for the Protection of Face Recognition Systems Against Mask Attacks.** Neslihan Kose, EURECOM; Jean-Luc Dugelay, EURECOM

10:30—11:00 Coffee Break

11:00—12:00
Session 2: Facial Biometrics
Session Chair: Stan Li (CASIA)

1. **Assessment of Facial Wrinkles as a Soft Biometrics.** Nazre Batool, University of Maryland, CP; Sima Taheri, University of Maryland; Rama Chellappa, University of Maryland at College Park

2. **Joint Estimation of Age, Gender and Ethnicity: CCA vs. PLS.** Guodong Guo, University of West Virgina; Guowang Mu, Hebei University of Technology

3. **A Talking Profile to Distinguish Identical Twins.** LI ZHANG, NUS ; Hossein Najati, NUS; KENGTECK MA, NUS; Terence Sim, National University of Singapore

12:00—12:30
Tuesday Spotlight I: Demos 1-4 and Tuesday posters 1-6
Session Chair: Yun Raymond Fu (Northeastern University)

12:30—14:00
Doctoral Consortium
Organizing Committee: Xiaoming Liu (Michigan State University), Louis-Philippe Morency (University of Southern California), and Yan Tong (University of South Carolina)

12:30—14:00
Lunch Break

14:00—15:00
Session 3: Face Technology Applications I
Session Chair: Louis-Philippe Morency (USC)

1. **Album-Oriented Face Recognition For Online Social Networks**. Zhongkai Han, Syed Zain Masood, Jason Hochreiter, Spencer Fonte, Marshall Tappen, UCF.

2. **Recognizing People by Face and Body in Photo Collections.** Markus Brenner, QMUL; Ebroul Izquierdo, QMUL

3. **Predicting Online Media Effectiveness Based on Smile Responses Gathered Over the Internet.** Daniel McDuff, MIT; Rana El Kaliouby, MIT Media Lab; David Demirdjian, MIT CSAIL; Rosalind Picard, MIT

15:00—16:00
Session 4: Face Technology Applications II
Session Chair: Zicheng Liu (Microsoft Research)

1. **Combining first-person and third-person gaze for attention recognition**. Francis Martinez, ISIR UPMC; Andrea Carbone, ISIR UPMC; Edwige Pissaloux, ISIR UPMC

2. **Isomorphic Manifold Inference for Hair Segmentation.** Dan Wang, ICT,CAS; Shiguang Shan, Chinese Academy of Sciences; Hongming Zhang; Wei Zeng; Xilin Chen

3. **Measuring the Engagement Level of TV Viewers**. Javier Hernandez, MIT; Zichen Liu, Microsoft Research; Geoff Hulten, Microsoft; Dave DeBarr; Kyle Krum, Microsoft; Zhengyou Zhang, Microsoft Research

16:00—16:15
Coffee Break

16:15—17:00
Tuesday Spotlight II: Tuesday posters 7-22
Session Chair: Georgios Tzimiropoulos (University of Lincoln)

17:00—19:00
Poster Session I
Session Chairs: Yun Raymond Fu (Northeastern University) and Georgios Tzimiropoulos (University of Lincoln)

1. **Person-Specific Face Tracking with Online Recognition**. Zhaowei Cai, CBSR.CASIA; Longyin Wen, NLPR.CASIA; Dong Cao, HoHai University; Zhen Lei; Dong Yi, CASIA, China; Stan Z. Li, NLPR, CASIA, China.

2. **Decoding Mixed Emotions from Expression Map of Face Images**. Swapna Agarwal, Indian Statistical Institute; Dipti Mukherjee, Indian Statistical Institute.

3. **Hierarchical Hyperlingual-Words for Multi-Modality Face Classification**. Ming Shao, Northeastern University; Yun Fu, Northeastern University, USA.

4. **Tone-Aware Sparse Representation for Face Recognition.** Lingfeng Wang, NLPR; Huaiyu Wu, NLPR; Chunhong Pan, NLPR.

5. **Explicit Occlusion Detection based Deformable Fitting for Facial Landmark Localization**. Xiang Yu, Rutgers University; Fei Yang, Rutgers University; Junzhou Huang, University of Texas at Arlington; Dimitris Metaxas, Rutgers University.

6. **Multiview Discriminative Learning for Age-Invariant Face Recognition**. Diana Sungatullina, Lomonosov Moscow State University; Jiwen Lu, ADSC; Gang Wang, NTU and ADSC; Pierre Moulin, UIUC

7. **Face Recognition based on Regularized Nearest Points between Image Sets**. Meng YANG, ETHz, HK PolyU; Pengfei Zhu, The Hong Kong Polytechnic University; Luc Van Gool, ETHZ; Lei Zhang, Hong Kong Polytechnic University.

8. **A Scalable Metric Learning-Based Voting Method for Expression Recognition**. Shaohua Wan, University of Texas at Austin; J.K. Aggarwal, University of Texas at Austin.

9. **Ensemble of Randomized Linear Discriminant Analysis for Face Recognition with Single Sample per Person**. Ying Li, Shanghai University; Wei Shen, Shanghai University; Zhijiang Zhang, Shanghai University, China.

10. **A Unified Probabilistic Framework For Measuring The Intensity of Spontaneous Facial Action Units**. Yongqiang Li, RPI; Seyedmohammad Mavadati, University of Denver; Mahoor Mohammad, University of Denver; Qiang Ji, Rensselaer Polytechnic Institute.

11. **Non-linear Predictors for Facial feature Tracking across Pose and Expression**. Tim Sheerman-Chase, CVSSP, University of Surrey; Eng-Jon Ong, University of Surrey; Richard Bowden, University of Surrey.

12. **Improving Recognition and Identification of Facial Areas Involved in Non-verbal Communication by Feature Selection**. Eng-Jon Ong, University of Surrey; Tim Sheerman-Chase, CVSSP, University of Surrey; Richard Bowden, University of Surrey; Nicolas Pugeault, CVSSP, University of Surrey.

13. **Privileged Information-based Conditional Regression Forest for Facial Feature Detection**. Heng Yang, Queen Mary University of Londo; Ioannis Patras, Queen Mary University of London.

14. **Using Color Texture Sparsity for Facial Expression Recognition**. Seung Ho Lee, KAIST; Hyungil Kim, KAIST; Konstantinos Plataniotis, University of Toronto; Yong Man Ro, KAIST, South Korea.

15. **Hierarchical Approach to Weight Equations in Face Tracking and Recognition Framework**. Hisayoshi Chugan, Okayama University; Takeshi Shakunaga, Okayama University, Japan.

16. **Face and Landmark Detection by Using Cascade of Classifiers**. Hakan Cevikalp, Eskisehir Osmangazi University; Bill Triggs; Vojtech Franc,

17. **Emotional tagging of videos by exploring multi-emotion coexistence**. Zhaoyu Wang, Ustc; SHANGFEI WANG, USTC; Menghua He, USTC; Zhilei Liu, USTC; Qiang Ji, Rensselaer Polytechnic Institute.

18. **Multi-View Ordinal Ranking for Facial Age Estimation**. Renliang Weng, NTU, Singapore; Jiwen Lu, ADSC; Yang Gao, NTU.edu; Yap-Peng Tan, Nanyang Technological University, Singapore.

19. **From Dials to Facial Coding: Automated Detection of Spontaneous Facial Expressions for Media Research**. Evan Kodra, Affectiva; Thibaud Sénéchal, Affectiva; Daniel McDuff, MIT; Rana El Kaliouby, Affectiva, USA.

20. **Illumination Alignment using lighting ratio: Application to 3D-2D Face Recognition**. Xi Zhao, University of Houston; Shishir Shah, University of Houston; Ioannis Kakadiaris, University of Houston.

21. **Dimensional Affect Recognition using Continuous Conditional Random Fields**. Tadas Baltrusaitis, University of Cambridge; Ntombikayise Banda, University of Cambridge; Peter Robinson, University of Cambridge.

22. **Video-based Face Recognition via Joint Sparse Representation**. Yi-Chen Chen, ECE, University of Maryland; Vishal Patel, University of Maryland, College Park; Rama Chellappa, University of Maryland at College Park; Jonathon Phillips, National Institute of Standards & Technology.

23. **Robust Part-based Face Matching with Multiple Templates**. Kye-Hyeon Kim, POSTECH; Cha Zhang, Microsoft Research; Zhengyou Zhang, Microsoft Research; Seungjin Choi, POSTECH.

17:00—19:00
Demo Session I

19:00—21:00
Reception

Wednesday, 24 April 2013

08:30—09:30
Keynote Speaker: Judee Burgoon, University of Arizona
What the Lips Conceal, the Face, Head and Hands Reveal: Detecting Deception from Automated Analysis of Kinesics
Session Chair: Qiang Ji (Rensselaer Polytechnic Institute)

09:30—10:30
Session 5: Affect and Expression I
Session Chair: Jeffrey Cohn (University of Pittsburgh)

1. **Feature and Model Level Compensation of Lexical Content for Facial Emotion Recognition**. Soroosh Mariooryad, The University of Texas Dallas; Carlos Busso, The University of Texas at Dallas

2. **Weakly Supervised Pain Localization using Multiple Instance Learning.** Karan Sikka, UCSD; Abhinav Dhall, Australian National University; Marian Bartlett, UCSD

3. **A High-Resolution Spontaneous 3D Dynamic Facial Expression Database.** Xing Zhang, State University of New York at Binghamton; Lijun Yin, State University of New York at Binghamton; Jeffrey Cohn, University of Pittsburgh; Shaun Canavan, State University of New York at Binghamton; Michael Reale, State University of New York at Binghamton; Andy Horowitz, State University of New York at Binghamton; Peng Liu, State University of New York at Binghamton

10:30—11:00 Coffee Break

11:00—12:00
Session 6: Affect and Expression II
Session Chair: Simon Lucey (The Commonwealth Scientific and Industrial Research Organization)

1. **Sequential Emotion Recognition using Latent-Dynamic Conditional Neural Fields.** Julien-Charles Lévesque, Université Laval; Louis-Philippe Morency, University of Southern California; Christian Gagné, Université Laval

2. **Smile or Smirk? Automatic Detection of Spontaneous Asymmetric Smiles to Understand Viewer Experience.** Thibaud Sénéchal, Affectiva; Jay Turcot, Affectiva; Rana El Kaliouby, Affectiva

3. **Amount of Facial Motion Affects Perceptions of Extraversion in Animated Characters.** Jennifer Hyde, Carnegie Mellon University; Elizabeth Carter, Carnegie Mellon University; Jessica Hodgins , CMU

12:00—12:30
Wednesday Spotlight I: Wednesday posters 1-9
Session Chair: Hatice Gunes (Queen Mary University of London)

12:30—14:00
FG 2013 Steering Committee Lunch

12:30—14:00
Lunch Break

14:00—15:00
Session 7: Face Detection, Tracking, and Alignment
Session Chair: Roland Goecke (University of Canberra)

1. **Structural Models for Face Detection.** Junjie Yan, NLPR, CASIA; Xucong Zhang, NLPR&CBSR; Zhen Lei; Stan Z. Li; Dong Yi, CASIA, China

2. **Iterative Online Subspace Learning for Robust Image Alignment.** Jun He, Nanjing Univ of Info Sci Tech; Dejiao Zhang, Nanjing univ of sci inf &tech; Laura Balzano, University of Michigan; Tao Tao, Nanjing Univ of Info Sci Tech

3. **Online Learning and Fusion of Orientation Appearance Models for Robust Rigid Object Tracking.** Ioannis Marras, Imperial College London; Joan Alabort Medina, Imperial College London; Georgios Tzimiropoulos, University of Lincoln; Stefanos Zafeiriou, Imperial College London; Maja Pantic, Imperial College London

15:00—16:00
Session 8: Special Session on Micro-Expression
Session Organizers: Xiaolan Fu (Chinese Academy of Sciences), Matti Pietikäinen (University of Oulu), and Guoying Zhao (University of Oulu)
Session Chairs: Xiaolan Fu (Chinese Academy of Sciences) and Guoying Zhao (University of Oulu)

1. **Encoding Local Binary Patterns Using the Re-Parametrization of the Second Order Gaussian Jet.** John Ruiz Hernandez, Matti Pietikinen, University of Oulu

2. **Felt emotion and social context determine the intensity of smiles in a competitive video game.** Jonathan Gratch, University of Southern California; Lin Cheng, University of Southern Calfornia; Jill Boberg, University of Southern Calfornia; Stacy Marsella , USC

3. **Implicit Video Multi-Emotion Tagging by Exploiting Multi-Expression Relations.** Zhilei Liu, USTC; Shangfei Wang, USTC; Zhaoyu Wang, USTC; Qiang Ji, Rensselaer Polytechnic Institute

16:00—16:15
Coffee Break

16:15—17:00
Wednesday Spotlight II: Wednesday posters 10-23
Session Chair: Shiguang Shan (Chinese Academy of Sciences)

17:00—19:00
Poster Session II
Session Chairs: Hatice Gunes (Queen Mary University of London) and Shiguang Shan (Chinese Academy of Sciences)

1. **Low-Rank Embedding for Semi-supervised Face Classification**. Gaurav Srivastava, Samsung Telecom America; Ming Shao, Northeastern University; Yun Fu, Northeastern University

2. **A Spontaneous Micro-Expression Database: Inducement, Collection and Baseline**. Xiaobai Li, University of Oulu; Tomas Pfister, Department of Engineering Science University of Oxford Oxford, UK; Xiaohua Huang, University of Oulu; Guoying Zhao, Department of Computer Science and Engineering, University of Oulu, Oulu Finland; Matti Pietikäinen, Department of Computer Science and Engineering, University of Oulu, Oulu Finland

3. **CASME Database: A Dataset of Spontaneous Micro-Expressions Collected From Neutralized Faces**. Wenjing Yan; Qi Wu; Yongjin Liu, Tsinghua University; Sujing Wang, Chinese Academy of Sciences; Xiaolan Fu, Chinese Academy of Sciences.

4. **Improving Action Units Recognition Using Dense Flow-based Face Registration in Video**. Songfan Yang, U of California Riverside; Le An, UC Riverside; Bir Bhanu, UC Riverside.

5. **Fast and Scalable Enrollment for Face Identification based on Partial Least Squares**. Gerson Carlos, University of Campinas; Helio Pedrini, University of Campinas; William Schwartz, Federal University of Minas Gerais.

6. **Multiple Feature Fusion for Face Recognition**. Shu Kong, Zhejiang University; Xikui Wang, Zhejiang University; Donghui Wang, Zhejiang University; Fei Wu, Zhejiang University.

7. **Learning from a Single Labeled Face and a Stream of Unlabeled Data**. Branislav Kveton, Technicolor Labs; Michal Valko, INRIA

8. **Illumination Invariant Human Face Recognition: Frequency or Resonance?** Aryaz Baradarani, University of Windsor; Q.M. Jonathan Wu, University of Windsor

9. **Face Alignment Using Local Hough Voting**. Xin Jin, "Nanjing University of Aeronautics and Astronautics, China"; Xiaoyang Tan, "Nanjing University of Aeronautics and Astronautics, China"; liang Zhou, Nanjing University of Aeronautics and Astronautics, China.

10. **AU-aware Deep Networks for Expression Recognition**. Mengyi Liu, Chinese Academy of Sciences; Shaoxin Li, GUCAS, ICT, VIPL; Shiguang Shan, Chinese Academy of Sciences; Xilin Chen, Chinese Academy of Sciences.

11. **The temporal connection between smiles and blinks**. Laura Trutoiu, Carnegie Mellon University; Jessica Hodgins, CMU; Jeffrey Cohn, University of Pittsburgh.

12. **Deformable Face Ensemble Alignment with Robust Grouped-L1 Anchors**. Xin Cheng, Queensland U of Technology; Clinton Fookes, Queensland University of Technology; Jason Saraghi, The Commonwealth Scientific and Industrial Research Organisation; Sridha Sridharan, Queensland University of Technology; Simon Lucey, The Commonwealth Scientific and Industrial Research Organization, Australia.

13. **Early Facial Expression Recognition with Early RankBoost**. SU LU MEI, The university of Tokyo; Yoichi Sato, University of Tokyo.

14. **Face Recognition based on 3D Partial Data using Semi-Coupled Dictionary Learning**. Dat Chu, University of Houston; Shishir Shah, University of Houston; Ioannis Kakadiaris, University of Houston.

15. **Multi-Attribute Sparse Representation with Group Constraints for Face Recognition under Different Variations**. Chen-Kuo Chiang, National Tsing Hua University; Te-Feng Su; Chih Yen; Shang-Hong Lai, National Tsing-Hua University, Taiwai.

16. **Nebula Feature: A Space-Time Feature for Posed and Spontaneous 4D Facial Behavior Analysis**. Michael Reale, Binghamton University; Xing Zhang, Binghamton University; Lijun Yin, State University of New York at Binghamton.

17. **Face Recognition with Occlusion Using Dynamic Image-to-Class Warping (DICW)**. Xingjie Wei, University of Warwick; Chang-Tsun Li, University of Warwick; Yongjian Hu, University of Warwick, United Kingdom.

18. **Improved Local Binary Pattern Based Action Unit Detection Using Morphological and Bilateral Filters**. Anil Yüce, EPFL - Signal Processing Laboratory (LTS5); Matteo Sorci, nViso SA; Jean-Philippe Thiran, EPFL-Signal Processing Laboratory (LTS5).

19. **Improving Facial Expression Analysis using Histograms of Log-Transformed Nonnegative Sparse Representation with a Spatial Pyramid Structure**. Ping Liu, University of South Carolina; Shizhong Han; Yan Tong, University of South Carolina.

20. **Making the most of the Self-Quotient Image in Face Recognition**. Ognjen Arandjelovic, Deakin University

21. **A comparison of alternative classifiers for detecting occurrence and intensity in spontaneous facial expression of infants with their mothers**. Nazanin Zaker, University of Denver; Mahoor Mohammad, University of Denver; Whitney Mattson; Daniel Messinger, University of Miami; Jeffrey Cohn, University of Pittsburgh.

22. **Maximum margin GMM learning for facial expression recognition**. Usman Tariq, University of Illinois at Urbana Champaign; Jianchao Yang, University of Illinois at Urbana Champaign; Thomas Huang, University of Illinois at Urbana Champaign.

17:00—19:00
Demo Session II

19:30—23:00
Banquet

Thursday, 25 April 2013

08:30—09:30
Keynote Speaker: Jessica Hodgins, Carnegie Mellon University and Disney Research
Talk Title: Comparing Advances in Facial and Whole Body Animation
Session Chair: Rama Chellappa (Univ. of Maryland)

09:30—10:30
Session 9: Body Motion Analysis and Action Recognition I
Session Chair: Anton Nijholt (University of Twente)

1. **Body communicative cue extraction for conversational analysis.** Alvaro Marcos-Ramiro, University of Alcala; Daniel Pizarro-Perez, University of Alcala; Marta Marron-Romera, University of Alcala; Laurent Nguyen, EPFL and Idiap Research Institute; Daniel Gatica-Perez, EPFL and IDIAP

2. **Relative Dense Tracklets for Human Action Recognition**. Piotr Bilinski, INRIA; Etienne Corvee, INRIA; Francois Bremond, INRIA; Slawomir Bak, INRIA

3. **Supervised Dictionary Learning for Action Localization.** Vijay Kumar, Queen Mary, University of London; Ioannis Patras, Queen Mary University of London

10:30—11:00 Coffee Break

11:00—12:00
Session 10: Body Motion Analysis & Action Recognition II
Session Chair: Dmitry Goldgof (University of South Florida)

1. **Spatio-Temporal Steerable Pyramid for Human Action Recognition**. Xiantong Zhen, University of Sheffield; Ling Shao, University of Sheffield

2. **Extremal Human Curves: a New Human Body Shape and Pose Descriptor**. Slama Rim, LIFL; Hazem Wannous, LIFL-Univesity of Lille; Mohamed Daoudi, Telecom-lille1

3. **Person Appearance Modeling and Orientation Estimation using Spherical Harmonics**. Martijn Liem, University of Amsterdam; Dariu Gavrila, University of Amsterdam

12:00—12:30
Thursday Spotlight I: Thursday posters 1-9
Session Chair: Michel Valstar (University of Nottingham)

12:30—14:00
Lunch Break

14:00—15:00
Session 11: Special Session on Sign Language
Session Organizers: Vassilis Athitsos (UT Arlington) and Christian Vogler (Gallaudet University)
Session Chair: Vassilis Athitsos (UT Arlington)

1. **Histogram of 3D Facet: A Characteristic Descriptor for Hand Gesture Recognition.** Chenyang Zhang, CUNY City College; Xiaodong Yang; Yingli Tian, City University of New York.

2. **Recognizing Eyebrow Movements Using CRFs for Non-manual Grammatical Marker Detection in ASL.** Jingjing Liu, Rutgers University; Bo Liu, Rutgers University; Peng Yang, Rutgers University; Shaoting Zhang, Rutgers University; Dimitris Metaxas, Rutgers University; Carol Neidle, Boston University.

3. **May the Force be with you: Force-Aligned SignWriting for Automatic Subunit Annotation of Corpora**. Oscar Koller, RWTH Aachen University; Hermann Ney, RWTH Aachen University; Richard Bowden, University of Surrey.

15:00—16:00
Session 12: Special Session on FG in Medicine
Session Organizers: Ioannis A. Kakadiaris (University of Houston) and Shishir K. Shah (University of Houston)
Session Chair: Liming Chen (Ecole Centrale De Lyon)

1. **Manual and Automatic Analysis of Facial Affective Reactivity in Major Depressive Disorder**. Jeffrey Girard, University of Pittsburgh; Jeffrey Cohn, University of Pittsburgh; Mahoor Mohammad, University of Denver; Seyedmohammad Mavadati, University of Denver; Dean Rosenwald, University of Pittsburgh.

2. **Can body expressions contribute to automatic depression analysis?** Jyoti Joshi, University of Canberra; Roland Goecke, University of Canberra; Michael Breakspear, Queensland Institute of Medical Research; Gordon Parker, University of New South Wales.

3. **Automatic Behavior Descriptors for Psychological Disorder Analysis.** Stefan Scherer, USC Institute for Creative Tec; Giota Stratou, Jonathan Gratch, University of Southern California; Jill Boberg, University of Southern Calfornia; Marwa Mahmoud, Cambridge University; Albert (Skip) Rizzo; Louis-Philippe Morency, University of Southern California.

16:00—16:15
Coffee Break

16:15—17:00
Thursday Spotlight II: Thursday posters 10-23
Session Chair: Irene Kotsia (Queen Mary, University of London)

17:00—19:00
Poster Session III
Session Chair: Irene Kotsia (Queen Mary, University of London) and Michel Valstar (University of Nottingham)

1. **Inferring Hand Pose: A Comparative Study of Visual Shape Features.** Akshaya Thippur, KTH; Carl Henrik Ek, KTH; Hedvig Kjellstrom, KTH

2. **Behavior Recognition by Learning Structural and Pairwise Mid-level Features Using Random Forest.** Jie Hu, University at Buffalo, SUNY; Yu Kong, Northeastern University; Yun Fu, Northeastern University

3. **Head Yaw Estimation via Symmetry of Regions.** Bingpeng MA, HUST; Annan Li, National University of Singapore; Xiujuan CHAI; Shiguang Shan, Chinese Academy of Sciences

4. **Fast propagation-based skin regions segmentation in color images.** Michal Kawulok, Silesian Univ. of Technology

5. **Integrating Multi-Stage Depth-Induced Contextual Information For Human Action Recognition and Localization.** Bingbing Ni, ADSC; Yong Pei, ADSC; Pierre Moulin, UIUC

6. **Synthesis of Spatio-Temporal Descriptors for Dynamic Hand Gesture Recognition Using Genetic Programming.** Li Liu, The University of Sheffield; Ling Shao, University of Sheffield

7. **Accurate Static Pose Estimation Combining Direct Regression and Geodesic Extrema.** Brian Holt, University of Surrey; Richard Bowden, University of Surrey; Eng-Jon Ong, University of Surrey

8. **Multitouchless: Real-Time Fingertip Detection and Tracking Using Geodesic Maxima.** Philip Krejov, University of Surrey; Richard Bowden, University of Surrey

9. Multi-Layer Joint Gait-Pose Manifold for Human Motion Modeling. Meng Ding, Oklahoma State University; Guoliang Fan, Oklahoma State U

10. **On Combining Gait Features.** Yasushi Makihara, Osaka University; Daigo Muramatsu, Osaka university; Haruyuki Iwama, Osaka university; Yasushi Yagi, Osaka university.

11. **Video based Activity Recognition in Trauma Resuscitation.** Ishani Chakraborty, Rutgers University; Ahmed Elgammal, Rutgers University; Randall Burd, Children's National Medical Center.

12. **Structured Output Learning for Constrained Local Models with Application to Real-time Facial Feature Detection and Tracking on Low-power Devices.** Shuai Zheng, Oxford Brookes University; Paul Sturgess, Oxford Brookes University; Philip Torr, Oxford Brookes Vision Group

13. **Prototype Based Feature Learning for Face Image Set Classification.** Mingbo Ma, Northeastern University; Ming Shao, Northeastern University; Xu Zhao, Shanghai Jiao Tong University; Yun Fu, Northeastern University

14. **Automatic Fetal Face Detection By Locating Fetal Facial Features From 3D Ultrasound Images For Navigating Fetoscopic Tracheal Occlusion Surgeries**. Rong Xu, Waseda University; Jun Ohya, Waseda University; Bo Zhang; Yoshinobu Sato; Masakatsu G. Fujie.

15. **Learning Class-Specific Dictionaries with Fused Multiple Features for Face Recognition.** Shu Kong, Zhejiang University; Donghui Wang, Zhejiang University.

16. **Skin Detection Using a Modified Self-Organizing Mixture Network.** Chang Lin, BUPT; Jun-min Leng, BUPT; Chong-xiu Yu, BUPT

17. **An Automatic 3D Expression Recognition Framework based on Sparse Representation of Conformal Images.** Wei Zeng, Florida International Univ.; Huibin Li, Ecole Centrale De Lyon; Liming CHEN, Ecole Centrale De Lyon; Jean-Marie Morvan, Ecole Centrale De Lyon; Xianfeng Gu, State University of New York at Stony Brook.

18. **Joint Optimization of Manifold Learning and Sparse Representations.** Raymond Ptucha, Rochester Institute of Tech; Andreas Savakis, RIT.

19. **Gender and 3D Facial Symmetry: What's the Relationship?** XIA Baiqiang, Telecom-Lille1; Boulbaba Ben Amor, Telecom-lille1; Drira Hassen, Telecom-lille1; Mohamed Daoudi, Telecom-lille1; Ballihi Lahoucine, Telecom-lille1

20. **Real Time 3D Face Alignment with Random Forests-based Active Appearance Models.** Gabriele Fanelli, ETHZ; Matthias Dantone; Luc Van Gool, ETHZ

21. **Transfer Learning to Account for Idiosyncrasy in Face and Body Expressions.** Bernardino Romera-Paredes, University College London; Min Aung, University College London; Paul Watson, University of Leicester; Massimiliano Pontil, University College London; Nadia Banchi-Berthouze, UCL.

22. **Distribution-Sensitive Learning for Imbalanced Datasets.** Yale Song, MIT; Louis-Philippe Morency, University of Southern California; Randy Davis, MIT

23. **Temporal Coordination of Head Motion in Couples with History of Interpersonal Violence.** ZAKIA HAMMAL, CARNEGIE MELLON UNIVERSITY; Jeffrey Cohn, University of Pittsburgh; Tess Bailie, CMU; Jason Saraghi, The Commonwealth Scientific and Industrial Research Organisation; Jesus Nuevo Chiquero, csiro; Simon Lucey, csiro.

17:00—19:00
Demo Session III