Welcome to the 10th IEEE International Conference on Automatic Face and Gesture Recognition (FG13) in Shanghai, China. The conference is the premier world conference on vision-based facial and body gesture modeling, analysis, and recognition. Since its first meeting in Zurich, the conference has been held nine times throughout the world. At its tenth meeting, the conference is held for the first time in Shanghai, China. Shanghai is the economic and financial center of China. Many of China’s prestigious universities and companies are located in Shanghai. The conference is held at the Majesty Plaza Hotel, which is ideally located in the center of the city and is within walking distance to the city’s major attractions and shopping centers.

We received over 300 paper submissions in total for the main conference. From these submissions, 36 were accepted for oral presentations and 68 were accepted for poster presentations, an acceptance rate of about 35%. Only submissions with high novelty and convincing comparisons to the state of the art methods were accepted. We have assembled a main conference program that comprises 3 keynote presentations, 12 single-track oral sessions including 3 special sessions on “Frontiers in FG,” and 3 poster sessions. The posters are also summarized in spotlight presentations. The conference also features workshops, tutorials, demonstrations, exhibitions, and a Doctoral Consortium. We are happy to report that about 20 graduate students from all over the world are participating in the Doctoral Consortium. Besides technical meetings, the conference also features technical tours of local companies and universities as well as social tours of local attractions.
We are honored to welcome three keynote speakers who have distinguished themselves as leading innovators in FG research. Professor Gregory Abowd is an internationally recognized leader in human-centered applications of mobile and ubiquitous computing technologies. Professor Judee K. Burgoon is a world-renowned expert on nonverbal and verbal communication, deception and computer-mediated communication. Professor Jessica Hodgins is leading at the forefront of research on computer graphics, animation, and robotics with an emphasis on generating and analyzing human motion.

A large event such as FG cannot take place without the contributions from many people. We would like to express our sincere thanks to the area chairs and the reviewers, who put significant time and efforts into assembling the excellent program. We are also grateful for other conference organizers who worked diligently and effectively to solicit an outstanding collection of workshops, tutorials, special sessions, sponsorships, demos and exhibits and to publicize the conference, to handle the finances, and to deal with the many details involved in putting together a first-rate conference. We would also like to express our thanks to the FG steering committee for their advice and guidance. We, in particular, would like to express our gratitude to our local chair, Professor Bao-Liang Lu, for the great support he has provided. This year, we received an unprecedented amount of sponsorships from a wide range of sponsors including private companies, university, and governmental agencies. We express our sincere gratitude for their generous support. Their support demonstrates the growing reputation of FG among private companies and governmental agencies. Their support also allows us to provide additional services to the conference attendees and enables the participation of a large number of graduate students in the Doctoral Consortium.
Last but not least, we wish to thank all of the authors who are sharing research results and progress through their conference and workshop papers and demos this week; their work is the reason the conference exists. We invite all attendees to actively participate in the conference activities, and thoroughly enjoy the conference. Welcome to Shanghai!

Rama Chellappa, Xilin Chen, and Qiang Ji
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Maja Pantic, Stan Sclaroff, and Lijun Yin
FG 2013 Technical Program Co-Chairs
In conjunction with the 10th IEEE International Conference on Automatic Face and Gesture Recognition (FG’2013)
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Qingshan Liu (Nanjing U of IS&T)

Industry Chairs
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Test of Time Award Committee
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  Kevin Boyer (Notre Dame)
  Larry Davis (U of Maryland)
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  Mark Nixon (U Southampton)
  Maja Pantic (ICL and U of Twente)
  Sandy Pentland (MIT)
  Matthew Turk (UCSB)
  Jeff Cohn (U. of Pittsburgh)
Keynote: Professor Gregory D. Abowd, Georgia Institute of Technology

Title: Computing and Autism: How a real problem drives multimodal activity recognition research

Date: Tuesday, April 23, 2013

Abstract: Since 2002, I have targeted much of my research to challenges relating to autism. While this started and is continually fueled by a very personal motivation, I have been struck by how many interesting computing problems have surfaced in the context of trying to solve a real problem relating to autism. In this talk, I will give an overview of a variety of problem-driven challenges I and my collaborators have addressed and how in many cases the problem has opened up a rich computing problem to explore.

Bio: Gregory Abowd is a Regents' and Distinguished Professor in the School of Interactive Computing at the Georgia Institute of Technology. Dr. Abowd leads a research group interested in human-centered applications of mobile and ubiquitous computing technologies, with an emphasis on home and health. He established the Aware Home Research Initiative at Georgia Tech in the late 1990’s and has also researched applications of technology in the classroom. He was a leader in establishing the importance of computing technology to address a variety of challenges linked to autism, and has published widely on this topic and assisted in the development of commercial solutions. In 2008, he established the Atlanta Autism Consortium to create a stronger community of researchers, educators, clinicians and advocates linked to autism. He is an elected member of the ACM SIGCHI Academy and is an ACM Fellow. In 2009, he was awarded the ACM Eugene Lawler Humanitarian Award for his research efforts.
Keynote: Professor Judee K. Burgoon
The University of Arizona

Title: What the Lips Conceal, the Face, Head and Hands Reveal: Detecting Deception from Automated Analysis of Kinesics

Date: Wednesday, April 24, 2013

Abstract: The face, eyes, head and hands are rich sites of information about a communicator's veracity. Some indicators are inadvertent signs; others are strategic and intentional; and yet others are the product of the dyadic interaction between two communicators. In this presentation, I review which kinesic indicators (those shown in body movement) should be reliable, detectable and trackable and briefly summarize the theory that governs their emergence. I then demonstrate the methods we have been using for automating the detection of these behaviors and present classification results from several investigations showing the ability to discriminate deceivers, cheaters and criminals from truthful, noncheating and innocent individuals. Select videos will illustrate relevant indicators under truthful and nontruthful conditions.

Bio: Judee K. Burgoon is Professor of Communication, Family Studies and Human Development at the University of Arizona, where she serves as Director of Research for the Center for the Management of Information and Site Director for the NSF-sponsored Center for Identification Technology Research. Burgoon earned a joint doctorate degree in communication and educational psychology, has served on the faculties of the University of Florida, Michigan State University, and University of Arizona, and was Vice President for Media Research at Louis Harris and Associates, New York City. She has authored or edited 13 books and monographs and nearly 300 published articles, chapters and reviews related to nonverbal and verbal communication, deception, and computer-mediated communication.
Keynote: Professor Jessica K. Hodgins, Carnegie Mellon University

Title: Comparing Advances in Facial and Whole Body Animation

Date: Thursday, April 25, 2013

Abstract: Over the past twenty years, the field of computer animation has made significant progress in recording, modeling and synthesizing accurate, natural and believable animations for both human faces and whole body motion. Through this development process and the perceptual experiments that have validated the work, we have begun to build an understanding of what is required to make animated characters appear natural and lifelike. In this talk, I will review some of our recent work in both facial animation and whole body animation and reflect on the commonalities and differences in the two areas of research.

Bio: Jessica Hodgins is a Professor in the Robotics Institute and Computer Science Department at Carnegie Mellon University and Director of Disney Research, Pittsburgh. Prior to moving to Carnegie Mellon in 2000, she was an Associate Professor and Assistant Dean in the College of Computing at Georgia Institute of Technology. She received her Ph.D. in Computer Science from Carnegie Mellon University in 1989. Her research focuses on computer graphics, animation, and robotics with an emphasis on generating and analyzing human motion. She has received a NSF Young Investigator Award, a Packard Fellowship, and a Sloan Fellowship. She was editor-in-chief of ACM Transactions on Graphics from 2000-2002 and ACM SIGGRAPH Papers Chair in 2003. In 2010, she was awarded the ACM SIGGRAPH Computer Graphics Achievement Award.
Registration Information

Sunday, April 21, 2013
16:00 - 18:00
Registration (the First Floor)

Monday, April 22, 2013
8:00 - 17:00
Registration (Elevator Hall, 5th Floor)

Tuesday, April 23, 2013
8:00 - 17:00
Registration (Elevator Hall, 5th Floor)

Wednesday, April 24, 2013
08:00 - 17:00
Registration (Elevator Hall, 5th Floor)

Thursday, April 25, 2013
08:00 - 17:00
Registration (Elevator Hall, 5th Floor)
Monday, April 22, 2013
Workshop on 3D Biometrics 2013

Room: Yali Hall (4th Floor)

08:45 – 09:00
Opening

09:00 – 09:45
Keynote: Dr Sami Romdhani
Face Recognition for Real: Solutions and Challenges

09:45 – 10:00
Coffee break

10:00 – 12:45
Oral Session (7 papers)
Session Chairs: Pr. Yunhong Wang (Beihang University, China), Pr. Mohamed Daoudi (Telecom Lille 1/LIFL, France)

1. Combining 3D Face Representations using Region Covariance Descriptors and Statistical Models
Authors: Križaj Janez, Vitomir Struc, Simon Dobrišek

2. Compensating inaccurate annotations to train 3D facial landmark localization models
Authors: Sukno Federico, John Waddington, Paul Whelan

3. A robust and isotropic curved surface representation for 3D faces description
Authors: JRIBI Majdi, Faouzi Ghorbel
4. Benchmarking Asymmetric 3D-2D face recognition systems
   Authors: Zhao Xi, wuming Zhang, Georgios Evangelopoulos, Di Huang, Yunhong Wang, Shishir Shah, Ioannis Kakadiaris, Liming Chen

5. Fully Automatic 3D Facial Expression Recognition using Differential Mean Curvature Maps and Histograms of Oriented Gradients
   Authors: Lemaire Pierre, Mohsen Ardabilian, Liming Chen, Mohamed daoudi

6. Multi-reference 3D surface representation: Application to 3D faces description
   Authors: Gadacha Wieme, Faouzi Ghorbel

7. Facial Ethnicity Classification based on Boosted Local Texture and Shape Descriptions
   Authors: DING Huaxiong, Di Huang, Yunhong Wang, Liming Chen

12:45 – 14:00
Lunch break
Tutorial: Understanding Human Actions with 2D and 3D Sensors

Room: Yayi Hall (4th Floor)

Presenters:
Dr. Zicheng Liu, Microsoft Research Redmond, USA
Dr. Junsong Yuan, Nanyang Technological University, Singapore

9:00 - 10:30
Part 1: Understanding Human Actions in Videos
Presenter: Dr. Junsong Yuan

1. Video-based action representation and matching
   a. spatio-temporal interest point (STIP) features
   b. other types of video feature
   c. Mutual information maximization for action matching
2. Detection of human action and activities
   a. Spatio-temporal window search for action localization
   b. Beyond spatio-temporal window localization
   c. Propagative Hough-voting for action localization
3. Datasets and case studies
   a. Action detection in crowded scenes
   b. Action search by example
   c. Action recognition and prediction

10:30 - 10:50
Break
10:50 - 12:20
Part 2: Understanding Human Actions with 3-D sensors
Presenter: Dr. Zicheng Liu

1. Introduction
   a. Activities
      i. Hand gesture, action, activity
   b. 3D sensors
      i. Laser scanners
      ii. Structure light systems
      iii. Time-of-flight cameras
   c. Depth maps
      i. Noises, holes, foreground/background occlusions
   d. Skeleton tracking and its limitations

2. Features
   a. Skeleton-based features
      i. Joint angle trajectory
      ii. EigenJoints
      iii. SMIJ
      iv. Ho3DJoint
      v. Fourier temporal pyramid
   b. Depthmap-based features
      i. HOG
      ii. Bag of 3D points
      iii. Spacetime Occupancy Patterns
      iv. DMM-HOG
      v. Local occupancy pattern
      vi. Local depth pattern
      vii. Histogram of oriented 3D normal
      viii. Histogram of 3D facets
   c. RGB + depth

3. Hand segmentation and feature extraction
4. Recognition paradigms
   a. Direct classification (global descriptors)
   b. Bag of feature framework (interest points + local descriptors)
   c. Actionlet ensemble
   d. Random occupancy patterns
   e. Online recognition
      i. Temporal segmentation
      ii. Action graph

5. Datasets and experiment results
   a. MSR Action 3D dataset
   b. MSR Daily Activity dataset
   c. MSR Gesture 3D dataset
   d. RGBD-HuDaAct dataset
Tuesday, April 23, 2013

08:20 - 08:30
Opening Session: Welcome to Face and Gesture 2013 (A+B Halls)
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 (A+B Halls)
Talk Title: Computing and Autism: How a real problem drives multimodal activity recognition research
Chair: Stan Sclaroff (Boston Univ.)

08:30 - 19:00
Demo/Exhibitor Session I (VIP Hall)

09:30 - 10:30
Session 1: Face Recognition (A+B Halls)
Chair: Stefanos Zafeiriou (Imperial College London)

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

2. Logarithm Gradient Histogram: A General Illumination Invariant Descriptor for Face Recognition
Descriptor for Face Recognition
Authors: 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
Authors: Neslihan Kose, EURECOM; Jean-Luc Dugelay, EURECOM

10:30 - 11:00
Coffee Break
11:00 - 12:00

Session 2: Facial Biometrics (A+B Halls)
Chair: Stan Li (CASIA)

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

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

3. A Talking Profile to Distinguish Identical Twins
   Authors: Li Zhang, National University of Singapore; Hossein Najati, National University of Singapore; Kengteck Ma, National University of Singapore; Terence Sim, National University of Singapore

12:00 - 12:30

Tuesday Spotlight I: Demos 1-4 and Tuesday posters 1-6 (A+B Halls)
Chair: Yun Raymond Fu (Northeastern University)

12:30 - 14:00

Doctoral Consortium (VIP Halls)
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 on the 2nd Floor
14:00 - 15:00

Session 3: Face Technology Applications I (A+B Halls)
Chair: Louis-Philippe Morency (USC)

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

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

3. Predicting Online Media Effectiveness Based on Smile Responses Gathered Over the Internet
   Authors: 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 (A+B Halls)
Chair: Zichen Liu (Microsoft Research)

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

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

3. Measuring the Engagement Level of TV Viewers
   Authors: Javier Hernandez, MIT; Zicheng 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 (A+B Halls)
Session Chair: Georgios Tzimiropoulos (University of Lincoln)

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

1. Person-Specific Face Tracking with Online Recognition
Authors: 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
Authors: Swapna Agarwal, Indian Statistical Institute; Dipti Mukherjee, Indian Statistical Institute

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

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

5. Explicit Occlusion Detection based Deformable Fitting for Facial Landmark Localization.
Authors: 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
Authors: 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
Authors: Meng YANG, ETHz, Hong Kong Polytechnic University; Pengfei Zhu, 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
Authors: 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
Authors: 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
Authors: Yongqiang Li, Rensselaer Polytechnic Institute; Seyed Mohammad 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
Authors: 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
Authors: 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
Authors: Heng Yang, Queen Mary University of London; Ioannis Patras, Queen Mary University of London
14. Using Color Texture Sparsity for Facial Expression Recognition  
Authors: 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  
Authors: Hisayoshi Chugan, Okayama University; Takeshi Shakunaga, Okayama University, Japan

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

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

18. Multi-Feature Ordinal Ranking for Facial Age Estimation  
Authors: 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  
Authors: Evan Kodra, Affectiva; Thibaud Senechal, Affectiva; Daniel McDuff, MIT; Rana El Kaliouby, Affectiva, USA

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

21. Dimensional Affect Recognition using Continuous Conditional Random Fields  
Authors: Tadas Baltrusaitis, University of Cambridge; Ntombikayise Banda, University of Cambridge; Peter Robinson, University of Cambridge
22. Video-based Face Recognition via Joint Sparse Representation
Authors: Yi-Chen Chen, ECE, University of Maryland; Vishal Patel, University of Maryland at 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
Authors: Kye-Hyeon Kim, POSTECH; Cha Zhang, Microsoft Research; Zhengyou Zhang, Microsoft Research; Seungjin Choi, POSTECH

08:30 - 19:00
Demo/Exhibitor Session I (VIP Hall)
1. Sign language recognition and translation with Kinect
   Xiujuan Chai et al, ICT/CAS, China

2. Live 3D facial scanning and landmark detection
   Federico M. Sukno (Dublin City University), John L. Waddington (Royal College of Surgeons in Ireland) and Paul F. Whelan (Dublin City University), Ireland

3. Real-time face analysis using random forest
   Matthias Dantone, ETH Zurich, Switzerland

4. CSIRO Face Analysis SDK
   Simon Lucey, CSIRO, Australia

5. 3dMD High Precision Surface Imaging and Software
   Kelly Ducan, 3dMD, USA

6. Dimensional Imaging's standard DI3D™ FCS-180 system
   Zhenyu Xu, Nanjing IBIS Education Equipments Ltd., China

7. ISVision

19:00 - 21:00
Conference Reception (A+B Halls)
Wednesday, April 24, 2013

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

08:30 - 19:00
Demo/Exhibitor Session II (VIP Hall)

09:30 - 10:30
Session 5: Affect and Expression I (A+B Halls)
Chair: Jeffrey Cohn (University of Pittsburgh)

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

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

3. A High-Resolution Spontaneous 3D Dynamic Facial Expression Database
Authors: 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 (A+B Halls)
Chair: Simon Lucey (The Commonwealth Scientific and Industrial Research Organization)

1. Sequential Emotion Recognition using Latent-Dynamic Conditional Neural Fields
Authors: Julien-Charles Levesque, Universite Laval; Louis-Philippe Morency, University of Southern California; Christian Gagne, Universite Laval

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

3. Perceptual Effects of Damped and Exaggerated Facial Motion in Animated Characters
Authors: Jennifer Hyde, Carnegie Mellon University; Elizabeth Carter, Carnegie Mellon University; Sara Kiesler, Carnegie Mellon University; Jessica Hodgins, Carnegie Mellon University
12:00 - 12:30
Wednesday Spotlight I: Wednesday posters 1-9 (A+B Halls)
Chair: Hatice Gunes (Queen Mary University of London, UK)

12:30 - 14:00
FG 2013 Steering Committee Lunch on the 4th Floor

12:30 - 14:00
Lunch Break on the 2nd Floor

14:00 - 15:00
Session 7: Face Detection, Tracking, and Alignment (A+B Halls)
Chair: Roland Goecke (University of Canberra)

1. Structural Models for Face Detection
Authors: Junjie Yan, NLPR, CASIA; Xucong Zhang, NLP and CBSR; ZhenLei; Stan Z. Li; Dong Yi, CASIA, China

2. Iterative Online Subspace Learning for Robust Image Alignment
Spatio-temporal Shape Features
Authors: 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 Inf. Sci. Tech.

3. Online Learning and Fusion of Orientation Appearance Models for Robust Rigid Object Tracking
Authors: 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 (A+B Halls)
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
Authors: John Ruiz Hernandez, Matti Pietikinen, University of Oulu

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

3. Implicit Video Multi-Emotion Tagging by Exploiting Multi-Expression Relations
Authors: 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 (A+B Halls)
Chair: Shiguang Shan (Chinese Academy of Sciences)
17:00 - 19:00
Poster Session II (VIP Hall)

Chairs: Hatice Gunes (Queen Mary University of London) and Shiguang Shan (Chinese Academy of Sciences)

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

2. A Spontaneous Micro-Expression Database: Inducement, Collection and Baseline
Authors: 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 Pietikainen, Department of Computer Science and Engineering, University of Oulu, Oulu Finland

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

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

5. Fast and Scalable Enrollment for Face Identification based on Partial Least Squares
Authors: Gerson Carlos, University of Campinas; Helio Pedrini, University of Campinas; William Schwartz, Federal University of Minas Gerais
6. Multiple Feature Fusion for Face Recognition  
   Authors: 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  
   Authors: Branislav Kveton, Technicolor Labs; Michal Valko, INRIA  

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

9. Face Alignment Using Local Hough Voting  
   Authors: 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  
    Authors: 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  
    Authors: Laura Trutoiu, Carnegie Mellon University; Jessica Hodgins,  
    Carnegie Mellon University; Jeffrey Cohn, University of Pittsburgh  

12. Deformable Face Ensemble Alignment with Robust Grouped-L1 Anchors  
    Authors: Xin Cheng, Queensland University of Technology;  
    ClintonFookes, 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
Authors: Su Lu Mei, The University of Tokyo; Yoichi Sato, University of Tokyo

14. 3D Face Recognition for Partial Data using Semi-Coupled Dictionary Learning
Authors: 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
Authors: Chen-Kuo Chiang, National Tsing Hua University; Te-Feng Su; Chih Yen; Shang-Hong Lai, National Tsing-Hua University, Taiwan

16. Nebula Feature: A Space-Time Feature for Posed and Spontaneous 4D Facial Behavior Analysis
Authors: 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)
Authors: 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
Authors: Anil Yuce, 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
Authors: Ping Liu, University of South Carolina; Shizhong Han, University of South Carolina; Yan Tong, University of South Carolina
20. Making the most of the Self-Quotient Image in Face Recognition
Authors: Ognjen Arandjelovic, Deakin University

21. A comparison of alternative classifiers for detecting occurrence and intensity in spontaneous facial expression of infants with their mothers
Authors: 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
Authors: Usman Tariq, University of Illinois at Urbana Champaign; Jianchao Yang, University of Illinois at Urbana Champaign; Thomas Huang, University of Illinois at Urbana Champaign

19:00 - 21:00
Banquet (Asia Hall, 7th Floor)
Xiao Nan Guo Restaurant, Shanghai International Convention Center, 2727, Riverside Avenue, Pudong, Shanghai
Thursday, April 25, 2013

08:30 - 09:30
Keynote Speaker: Jessica Hodgins, Carnegie Mellon University and Disney Research *(A+B Halls)*
Talk Title: Body Motion Analysis and Action Recognition I
*Chair: Rama Chellappa (University of Maryland at College Park)*

08:30 - 19:00
Demo/Exhibitor Session III *(VIP Hall)*

09:30 - 10:30
Session 9: Body Motion Analysis and Action Recognition I *(A+B Halls)*
*Chair: Anton Nijholt (University of Twente)*

1. Body communicative cue extraction for conversational analysis
Authors: 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 Research Institute

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

3. Supervised Dictionary Learning for Action Localization
Authors: 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 (A+B Halls)
Chair: Dmitry Goldgof (University of South Florida)

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

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

3. Person Appearance Modeling and Orientation Estimation using Spherical Harmonics
Authors: Martijn Liem, University of Amsterdam; DariuGavrila, University of Amsterdam

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

12:30 - 14:00
Lunch Break on the 2nd Floor

14:00 - 15:00
Session 11: Special Session on Sign Language (A+B Halls)
Session organizers: Vassilis Athitsos(UT Arlington) and Christian Vogler (Gallaudet University)
Session chair: Vassilis Athitsos (UT Arlington)

Authors: 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
Authors: 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
Authors: 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 (A+B Halls)
Session organizers: Ioannis A. Kakadiaris (University of Houston) and Shishir K. Shah (University of Houston)
Session chair: Liming Chen (Ecole Centrale De Lyon)

1. Social Risk and Depression: Evidence from Manual and Automatic Facial Expression Analysis
Authors: Jeffrey Girard, University of Pittsburgh; Jeffrey Cohn, University of Pittsburgh; Mohammad Mahoor, University of Denver; Seyed Mohammad Mavadati, University of Denver; Dean Rosenwald, University of Pittsburgh

2. Can body expressions contribute to automatic depression analysis?
Authors: 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
Authors: Stefan Scherer, USC Institute for Creative Tec; Giota Stratou, Jonathan Gratch, University of Southern California; Jill Boberg, University of Southern California; 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 (A+B Halls)
Chair: Irene Kotsia (Queen Mary, University of London)

17:00 - 19:00
Poster Session III (VIP Hall)
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
Authors: Akshaya Thippur, KTH; Carl Henrik Ek, KTH; Hedvig Kjellstrom, KTH

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

3. Head Yaw Estimation via Symmetry of Regions
Authors: 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
Authors: Michal Kawulok, Silesian Univ. of Technology

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

Authors: Li Liu, The University of Sheffield; Ling Shao, University of Sheffield
7. Accurate Static Pose Estimation Combining Direct Regression and Geodesic Extrema  
Authors: Brian Holt, University of Surrey; Richard Bowden, University of Surrey; Eng-Jon Ong, University of Surrey

Authors: Philip Krejov, University of Surrey; Richard Bowden, University of Surrey

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

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

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

12. Approximate Structured Output Learning for Constrained Local Models with Application to Real-time Facial Feature Detection and Tracking on Low-power Devices  
Authors: 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  
Authors: 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
Authors: 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
Authors: Shu Kong, Zhejiang University; Donghui Wang, Zhejiang University

16. Skin Detection Using a Modified Self-Organizing Mixture Network
Authors: 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
Authors: 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
Authors: Raymond Ptucha, Rochester Institute of Tech; Andreas Savakis, RIT

19. Gender and 3D Facial Symmetry: What's the Relationship?
Authors: 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
Authors: Gabriele Fanelli, ETHZ; Matthias Dantone; Luc Van Gool, ETHZ
21. Transfer Learning to Account for Idiosyncrasy in Face and Body Expressions
Authors: 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
Authors: Yale Song, MIT; Louis-Philippe Morency, University of Southern California; Randy Davis, MIT Champaign

23. Temporal Coordination of Head Motion in Couples with History of Interpersonal Violence
Authors: 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
Friday, April 26, 2013
Workshop on Vision(s) on Deception and Non-cooperation

Room: Yayi Hall (4th Floor)

09:00 - 9:10
Introduction to the workshop
Anton Nijholt

09:10 - 9:50
Telling the difference between deceiving and truth telling: An experiment in a public space.
Ke Zhang, Dawn L. Eubanks, Lara A. Frumkin, Rose Saikayasit, Alex W. Stedmon, Glyn Lawson

09:50 - 10:30
Measuring postural rigidity associated with deception (preliminary title)
Aaron Elkins et al.

10:30 - 11:00
Break

11:00 - 11:35
Imposing cognitive load to unmask prepared lies
Valentino Zurloni, Barbara Diana, Massimiliano Elia
11:35 - 12:10
A Database for Facial Behaviour Analysis
Moi Hoon Yap, Hassan Ugail, Reyer Zwiggelaar

12:10 - 12:40
Discussion Session on Cultural Issues
How best to address issues of culture in a more rigorous way than has been done usually (usual being very anecdotal or based on self-report rather than actual observation or based on comparing two different nationalities).
*Discussion will be initiated by Dimitri Metaxas and Judee Burgoon*

12:40 - 14:00
Lunch Break

14:00 - 14:40
Automated Analysis of Interactional Synchrony using Robust Facial Tracking and Expression Recognition
Xiang Yu, Shaoting Zhang, Yang Yu, Norah Dunbar, Matthew Jensen, Judee Burgoon, Dimitris Metaxas

14:40 - 15:00
Discussion Session on Future Research
Topics: Verbal cues vs. nonverbal cues, combining psychological studies and computer vision approaches, non-cooperation vs. deception, et cetera.
*Discussion will be initiated by Chloe Zhang*

15:00 - 15:15
Discussion Session on How to Proceed: Future actions, Workshops, Publications
*Discussion will be initiated by Anton Nijholt*
EmoSPACE'13 Preliminary Technical Program:

Room: Yali Hall (4th Floor)

08:30 - 08:40
Opening

08:40 - 09:30
Keynote 1: Ursula Hess, Humboldt-Universität Berlin/Germany. The Face as Context in Emotion recognition

09:30 - 10:30
Session I: Data induction, acquisition & annotation

1. Laughter Induction Techniques Suitable for Generating Motion Capture Data of Laughter Associated Body Movements
Authors: Gary McKeown, William Curran, Ciaran McLoughlin, Harry J. Griffin, Nadia Bianchi-Berthouze

2. Introducing the RECOLA Multimodal Corpus of Remote Collaborative and Affective Interactions
Authors: Fabien Ringeval, Andreas Sonderegger, Juergen Sauer, and Denis Lalanne

3. Annotation and Processing of Continuous Emotional Attributes: Challenges and Opportunities
Authors: Angeliki Metallinou, Shrikanth Narayanan

10:30 - 11:00
Coffee Break
11:00 - 12:20
Session 2: Facial AU & expression recognition

1. Continuous AU Intensity Estimation using Localized, Sparse Facial Feature Space
   Authors: Laszlo A. Jeni, Jeffrey M. Girard, Jeffrey F. Cohn and Fernando De La Torre

2. Facial Expression Recognition using HessianMKL based Multiclass-SVM
   Authors: Xiao Zhang, Mohammad H. Mahoor, and Richard M. Voyles

3. Cross-pose Facial Expression Recognition
   Authors: Fatma Guney, Nuri Murat Arar, Mika Fischer, Hazım Kemal Ekenel

4. A Facial Expression Based Continuous Emotional State Monitoring System with GPU Acceleration
   Authors: Jinkuang Cheng, Yangdong Deng, Hongying Meng, Zhihua Wang

12:20 - 13:50
Lunch Break

13:50 - 14:40
Keynote 2: Beatrice de Gelder, Maastricht University/the Netherlands.
Through the eyes of the body
14:40 - 16:00
Session 3: Affect analysis & recognition

1. Analyzing Perceived Empathy/Antipathy based on Reaction Time in Behavioral Coordination
Authors: Shiro Kumano, Kazuhiro Otsuka, Masafumi Matsuda and Junji Yamato

2. Decoding Affect in Videos Employing the MEG Brain Signal
Authors: Mojtaba Khomami Abadi, Seyed Mostafa Kia, Ramanathan Subramanian, Paolo Avesani and Nicu Sebe

3. Margin-Constrained Multiple Kernel Learning Based Multi-Modal Fusion for Affect Recognition
Authors: Shizhi Chen and Yingli Tian

4. Proposal on an Image Haptization System Based on Emotional Effects of Color
Authors: Xiangning Liu, Katsuhito Akahane and Makoto Sato
<table>
<thead>
<tr>
<th>Monday, 22 April</th>
<th>Tuesday, 23 April</th>
<th>Wednesday, 24 April</th>
<th>Thursday, 25 April</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooperation</strong></td>
<td><strong>Reception</strong></td>
<td><strong>Main Conference</strong></td>
<td><strong>Cooperation</strong></td>
</tr>
<tr>
<td><strong>Decomposition</strong></td>
<td><strong>Main Conference</strong></td>
<td><strong>Lunch Break</strong></td>
<td><strong>EMBOSS/GENOMICS</strong></td>
</tr>
</tbody>
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From Majesty Plaza (No.719 Nanjing Road(E) or No.700 Jiujing Road, Tel.86-21- 6350 0000) to Shanghai International Convention Center (No.2727 Riverside Avenue Pudong)
Take Metro Line 2, “People's Square” to “Lujiazui”.

Shanghai International Convention Center (No.2727 Riverside Avenue Pudong)
10th IEEE International Conference on Automatic Face and Gesture Recognition
April 22-26, 2013  Shanghai, China