2013 10th IEEE International Conference and Workshops on Automatic Face and Gesture Recognition

(FG 2013)

Shanghai, China
22 – 26 April 2013

Tuesday, April 23, 2013

08:20 – 08:30

Opening Session: Welcome to Face and Gesture 2013

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

09:30 – 10:30

Session 1: Face Recognition

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**

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

11:00 – 12:00
Session 2: Facial Biometrics
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

14:00 – 15:00
Session 3: Face Technology Applications I
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

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; Zichen Liu, Microsoft Research; Geoff Hulten, Microsoft; Dave DeBarr; Kyle Krum, Microsoft; Zhengyou Zhang, Microsoft Research

17:00 – 19:00

Poster Session I

1. <u>Person-Specific Face Tracking with Online Recognition</u> ¨, $

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 DiscriminantAnalysis 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

Wednesday, April 24, 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

09:30 – 10:30

Session 5: Affect and Expression I

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

11:00 – 12:00

Session 6: Affect and Expression II

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

14:00 – 15:00

Session 7: Face Detection, Tracking, and Alignment

1. <u>**Structural Models for Face Detection**</u> ·······&+*

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

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 Calfornia; Jill Boberg, University of Southern Calfornia; Stacy Marsella, University of Southern Calfornia

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

17:00 – 19:00

Poster Session II

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 Science

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 ResearchOrganisation; 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-HuaUniversity, Taiwai

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

Thursday, April 25, 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

09:30 – 10:30
Session 9: Body Motion Analysis and Action Recognition I
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

11:00 – 12:00

Session 10: Body Motion Analysis & Action Recognition II

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-Univesity of Lille; Mohamed Daoudi, Telecom-lille1

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

14:00 – 15:00

Session 11: Special Session on Sign Language

1. Histogram of 3D Facet: A Characteristic Descriptor for Hand Gesture Recognition

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

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 Calfornia; MarwaMahmoud, Cambridge University; Albert (Skip) Rizzo; Louis-Philippe Morency, University of Southern California

17:00 – 19:00
Poster Session III

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

6. Synthesis of Spatio-Temporal Descriptors for Dynamic Hand Gesture Recognition Using Genetic Programming ···

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

8. Multitouchless: Real-Time Fingertip Detection and Tracking Using Geodesic Maxima ···

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 FetoscopicTracheal 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-xiuYu, 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\D5s 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

Additional Papers: