Technical Program, CVPR 2013 Biometrics Workshop (23 June 2013)

**S1** Face Recognition I (8:30-9:20am), Session Chair: Bir Bhanu (University of California Riverside, USA)

*An Augmented Linear Discriminant Analysis Approach for Identifying Identical Twins with the Aid of Facial Asymmetry Features* (8:30-8:50)
Felix Juefei-Xu (Carnegie Mellon University), Marios Savvides (Carnegie Mellon University)

*Continuous 3D Face Authentication using RGB-D Cameras* (8:50-9:10)
Mauricio Pamplona Segundo (Universidade Federal do Parana, Brazil), Sudeep Sarkar (University of South Florida, USA), Dmitry Golodn (University of South Florida, USA), Luciano Silva (Universidade Federal do Parana, Brazil), Olga Bellon (Universidade Federal do Parana, Brazil)

*Fixation and Saccade based Face Recognition from Single Image per Person with Various Occlusions and Expressions* (9:10-9:20)
Xingjie Wei (The University of Warwick, UK), Chang-Tsun Li (The University of Warwick, UK)

**S2** Fingerprint Matching I (9:20-10:10am), Session Chair: Jaihie Kim (Yonsei University, Korea)

*Issues in rotational (non-) invariance and image preprocessing* (9:20-9:40)
Lalit Jain (University of Colorado at Colorado Springs), Michael Wilber (University of Colorado at Colorado Springs, Securics Inc.), Terry Boult (University of Colorado at Colorado Springs, Securics Inc.)

*A New Metric for Latent Fingerprint Image Preprocessing* (9:40-10:00)
Haiying Guan (NIST), Andrew Dienstfrey (NIST), Mary Theofanos (NIST)

*Minutiae-based Matching State Model for Combinations in Fingerprint Matching System* (10:00-10:10)
Xi Cheng, (University at Buffalo, NY), Sergey Tulyakov (University at Buffalo, NY), Venu Govindaraju (University at Buffalo, NY)

**Coffee Break (10:10-10:40)**

**S3** Antispoofing Techniques (10:40-11:30am), Session Chair: Elham Tabassi (NIST, USA)

*Anti-spoofing in action: joint operation with a verification system* (10:40-11:00)
Ivana Chingovska (Idiap Research Institute), André Anjos (Idiap Research Institute), Sebastien Marcel (Idiap Research Institute)

*Computationally Efficient Face Spoofing Detection with Motion Magnification* (11:00-11:20)
Samarth Bharadwaj (IIIT Delhi), Tejas Dhamecha (IIIT Delhi), Mayank Vatsa (IIIT Delhi), Richa Singh (IIIT Delhi)

*Shape and Texture Based Countermeasure to Protect Face Recognition Systems Against Mask Attacks* (11:20-11:30)
Neslihan Kose (EURECOM), Jean-Luc Dugelay (EURECOM)

**S4** Ocular, Gait and Template Security (11:30-12:00), Session Chair: Richa Singh (IIIT Delhi, India)

*What is a 'Good' Periocular Region for Recognition?* (11:30-11:40)
Jonathon M. Smereka (Carnegie Mellon University), B.V.K. Vijaya Kumar (Carnegie Mellon University)

*Histogram of Weighted Local Directions for Gait Recognition* (11:40-11:50)
Sabesan Sivapalan (QUT), Daniel Chen (QUT), Simon Dennan (QUT), Sridha Sridharan (QUT), Clinton Fookes (QUT)

*A New Protocol to Evaluate the Resistance of Template Update Systems Against Zero Effort Attacks* (11:50-12:00)

**Lunch Break (12:00-1:30pm)**
Luch will be provided as an free on-site option

**Invited Talk (1:30pm to 2:30pm), Session Chair: Sudeep Sarkar (University of South Florida, USA)**

*Title: A Multimodal Perspective on Biometrics and Entity Profiles*
Dr. Prem Natrajan, Senior Vice President, Raytheon-BBN, USA

**S5** Fingerprint Marching II (2:30-3:20pm), Session Chair: Koichi Ito (Tohoku University, Japan)

*Self-Organizing Maps for Fingerprint Image Quality Assessment* (2:30-2:50)

Quality Assessment for Fingerprints Collected by Smartphone Cameras (02:50-03:10)
Guoqiang Li (Gjøvik University College), Jian Yang (Gjøvik University College), Martin Aastrup Olsen (Gjøvik University College) Christoph Busch (Gjøvik University College)

Texture Modeling for Synthetic Fingerprint Generation (03:10-03:20)
Peter Johnson (Clarkson University), Fang Hua (Clarkson University), Stephanie Schuckers (Clarkson University)

Coffee Break (3:20-3:40pm)

S6  Face Recognition II (03:40-04:30pm), Session Chair: Terry Boult (University of Colorado at Colorado Springs, USA)
Image Set-based Face Recognition: A Local Multi-Keypoint Descriptor-based Approach (03:40-04:00)
Na Liu (Sun Yat-Sen University), Meng Hui Lim (Hong Kong Baptist University), Pong Chi Yuen (Hong Kong Baptist University), Jian-Huang Lai (Sun Yat-Sen University)
General Regression and Representations Model for Face Recognition (04:00-04:20)
Jianjun Qian (Nanjing University of Science and Technology), Jian Yang (Nanjing University of Science and Technology)
Bacteria Foraging Fusion For Face Recognition Across Age Progression (04:20-04:30)
Daksha Yadav (IIIT Delhi), Richa Singh (IIIT Delhi), Mayank Vatsa (IIIT Delhi), Massimo Tistarelli (University of Sassari)

S7  Performance Improvement (4:30-5:20pm), Session Chair: Pong Chi Yuen (Hong Kong Baptist University, Hong Kong, China)
Similarity Measure Using Local Phase Features and Its Application to Biometric Recognition (04:30-04:50)
Shoichiro Aoyama (Tohoku University), Koichi Ito (Tohoku University), Takafumi Aoki (Tohoku University)
Can Combining Demographics and Biometrics Improve De-duplication Performance ? (04:50-05:10)
Himanshu Bhatt (IIIT Delhi), Richa Singh (IIITD), Mayank Vatsa (IIIT Delhi)
On Controlling Genuine Reject Rate in Multi-stage Biometric Verification (05:10-05:20)
Md Hossain (Louisiana Tech University), Kiran Balagani (New York Institute of Technology), Vir Phoha (Louisiana Tech University)

Valedictory and Closing Remarks (5:20-5:30), Bir Bhanu (University of California Riverside, USA)