Day 1: Saturday June 17, 2006

8:00-8:30 Breakfast
8:30 Welcome
8:30 Invited talk – I (8:30-9:15)

Seeing the Big Picture: How Passwords, Smart Cards, and Biometrics Fail for User Authentication -- Dr. Lawrence O'Gorman, Avaya Labs

Session I – Liveness/security (9:15-10:15)

1. **Liveness Detection for Fingerprint Scanners Based on the Statistics of Wavelet Signal Processing**
   Bozhao Tan, Stephanie Schuckers

2. **Fingerprint authentication device based on optical characteristics inside a finger**
   Emiko Sano, Takuji Maeda, Takahiro Nakamura, Masahiro Shikai, Koji Sakata, Masahito Matsushita, Koichi Sasakawa

3. **Empirical Mode Decomposition Liveness Check in Fingerprint Time Series Captures**
   Aditya Abhyankar, Stephanie Schuckers

4. **Protecting Face biometric Data on Smartcard with Reed-Solomon Code**
   Y C Feng, Pong C Yuen

5. **Automatic Image Quality Assessment with Application in Biometrics**
   Hartwig Fronthaler, Klaus Kollreider, Josef Bigun

10:15-10:45 Coffee Break

Data driven classifier performance improvements (10:15-11:45)

6. **Biometric Verification: Looking Beyond Raw Similarity Scores**
   Gaurav Aggarwal, Nalini Ratha, Ruud Bolle

7. **Incorporating Generic Learning to Design Discriminative Classifier Adaptable for Unknown Subject in Face Verification**
   Qiong Yang, Xiaoou Tang

8. **Empirical Studies of the Existence of the Biometric Menagerie in the FRGC 2.0 Image Corpus**
   Michael Wittman, Patrick Davis, Patrick Flynn

9. **Analysis of Local Appearance-based Face Recognition: Effects of Feature Selection and Feature Normalization**
   HAZIM KEMAL EKENEL, RAINER STIEFELHAGEN

10. **On the use of SIFT features for face authentication**
   Manuele Bicego, Andrea Lagorio, Enrico Grosso, Massimo Tistarelli

Estimating Sample Size Requirements for Reliable Personal Authentication Using User-Specific Samples
Jay Bhatnagar, Ajay Kumar

Lunch break 11:45-1:00 PM

Invited talk II (1-1:45) Dr. George Robert Blakly, Chief Scientist, Security & Privacy, IBM.

Biometrics + Gait (1:45-3:15)

12. **Person Verification by Lip Motion**
    Maycel-Isaac Faraj, Josef Bigun
13. **Particle Dynamics Warping Approach for Offline Signature Recognition**
    Gady Agam, Suneel Suresh
14. **Keystroke Biometric Recognition Studies on Long-Text Input under Ideal and Application-Oriented Conditions**
    Charles Tappert, Giang Ngo, Justin Simone, Huguens St. Fort, Sung-Hyuk Cha, Mary Villani
15. **Peg-Free Hand Shape Verification Using High Order Zernike Moments**
    Gholamreza Amayeh, George Bebis, Ali Erol, Mircea Nicolescu
16. **Model Selection Within a Bayesian Approach to Extraction of Walker Motion** *Ziheng Zhou, Robert Damper, Adam Prugel-Bennett*

3:15 – 3:45 Coffee Break

Face Recognition I(3:45 – 4:45)

17. **Image Intensification for Low-Light Face Recognition**
    Diego Socolinsky, Lawrence Wolff, Andrew Lundberg
18. **Partial & Holistic Face Recognition on FRGC-II data using Support Vector Machine Kernel Correlation Feature Analysis**
    Marios Savvides, Ramzi Abiantun, Jingu Heo, Sungwon Park, Chunyan Xie, B.V.K. Vijaya Kumar
19. **Illumination Invariant Elastic Bunch Graph Matching for Efficient Face Recognition**
    Nikunj Kela, Ajita Rattani, Phalguni Gupta
20. **Block Selection in the Local Appearance-based Face Recognition Scheme**
    HAZIM KEMAL EKENEL, RAINER STIEFELHAGEN

Face Recognition II (4:45-5:55)

21. **Comparison of Feature Space Methods for Face Recognition**
    Chunyan Xie, Marios Savvides, B.V.K. Vijaya Kumar
22. **Pose and Illumination Invariant Registrtion and Tracking for Video-based Face Recognition**
    Yilei Xu, Amit Roy-Chowdhury

Black – Oral regular 20 minutes

Orange – Oral short 10 minutes

Day 2 Sunday June 18, 2006

8:00-8:30 Breakfast
Invited talk 3 (9:00- 9:50)

"Selected Topics in Biometric Fusion: Summary of Results" Presenters: Austin Hicklin and Brad Ulery, MITRETEK

Multi-view/multi-spectral (9:55 – 12:05)

25. **Human Face Modeling and Recognition Through Multi-View High Resolution Stereopsis**
    Xin Chen, Timothy Faltemier, Patrick Flynn, Kevin Bowyer

10:15-10:45 Coffee Break

26. **Multispectral Iris Analysis: A Preliminary Study**
    Christopher Boyce, Arun Ross, Matthew Monaco, Lawrence Hornak, Xin Li

27. **Multi-Sensory Face Biometric Fusion (for Personal Identification)**
    Ognjen Arandjelovic, Riad Hammoud, Roberto Cipolla

28. **Pose-Invariant Physiological Face Recognition in the Thermal Infrared Spectrum**
    Pradeep Buddharaju, Ioannis Pavlidis, Panagiotis Tsiamyrtzis

29. **An Indoor and Outdoor, Multimodal, Multispectral and Multi-illuminant Database for Face Recognition**
    Hong Chang, Harishwaran Hariharan, Mingzhong Yi, Andreas Koschan, Besma Abidi, Mongi Abidi

12:05 -1:30 Lunch

1:30 – 2:30 Panel discussion

"On the future of biometrics - research, application and social challenges and how do we overcome" Panel Chair – Prof. Venu Govindraju

Fusion methods (2:35 – 4:45)

30. **When to Fuse Two Biometrics**
    Elham TABASSI, George W. QUINN, Patrick GROTHER

31. **Incorporating Quality Metrics in Multimodal Biometric Fusion**
    Michael Chan, Rebecca Brown, Wesley Turner

3:15 – 3:45 Coffee Break

32. **Integrating Face and Gait for Human Recognition**
    Xiaoli Zhou, Bir Bhanu

33. **Classifier Combination Types for Biometric Applications**
    Sergey Tulyakov, Venu Govindaraju

34. **An Ensemble Approach to Robust Biometrics Fusion**
    Costin Barbu, Raja Iqbal, Jing Peng

35. **A Comparison of 3D Biometric Modalities**
    Damon Woodard, Tim Faltemier, Ping Yan, Patrick Flynn, Kevin Bowyer

36. **Which Reference View is Effective for Gait Identification Using a View Transformation Model?**
    Yasushi Makihara, Ryusuke Sagawa, Yasuhiro Mukaigawa, Tomio Echigo, Yasushi Yagi
    (moved at authors request)

Black – Oral regular 20 minutes
Orange – Oral short 10 minutes