

Center for Identification Technology Research Fall 2009 Meeting Agenda

October 27 - 29, 2009

214 McClelland Hall
1130 E. Helen St.
University of Arizona
Tucson, AZ 85721

TUESDAY, OCTOBER 27, 2009

11:00 – 11:45 am **Meeting Registration Open and Buffet Lunch
Atrium Area, 214 McClelland Hall**

OPENING PLENARY 214 MCCLELLAND HALL

11:45 - 11:55 pm Opening Remarks: Welcome and CITeR Status Report
*Judee Burgoon and Jay Nunamaker, Site Directors, CITeR-UA Larry
Hornak and Bojan Cukic, Directors, CITeR-WVU*

11:55 – 12:05 pm Planning for New CITeR
Stephanie Schuckers, Clarkson U

12:05 - 12:20 pm Introduction of New and Current UA Affiliates
Laurea Ltd./Frontex
*Juha Knuuttila, Principal Lecturer, Laurea University of Applied
Sciences, & Rasa Karbauskaite, Research Officer, Frontex R & D Unit*

Defense Academy for Credibility Assessment
Andrew Dollins, Research Scientist

FINAL REPORTS & DISCUSSION (15 MIN PRESENTATIONS, 10 MIN DISCUSSION)

12:20 – 12:45 Improving Quality Enhanced Biometric Fusion Schemes
*Bojan Cukic, Afzel Noore, Nick Bartlow, Nathan Kalka, M. Vasta and R.
Singh (WVU)*

12:45 – 1:10 pm Collaborative Acquisition of Face Images Using a Camera Sensor
Network
V Kulathumani, Arun Ross and Bojan Cukic (WVU)

1:10 - 2:15 pm Kinesic Credibility Assessment during Criminal Interviews
*Matthew Jensen (OU), Judee Burgoon (U of A), Stanley Slowik (Stanley
Slowik Inc.) Pete Blair (Texas State U) and Dimitris Metaxas (Rutgers)*

2:15 – 2:40 pm Unconstrained Face Recognition Under Non-Ideal Conditions
Anil Jain (MSU) and Arun Ross (WVU)

- 2:40 – 3:05 pm Culturally Specific Credibility Classification Using Layered Voice Analysis
Aaron Elkins, Judee Burgoon (UA) and Dale Tunnell (Forensitec)
- 3:05 - 3:20 pm **Break**
- 3:20 – 3:45 pm LivDet 2009-Fingerprint Liveness Detection Competition 2009
Stephanie Schuckers, Aaron Lewicke & Bozhao Tan (Clarkson)
- 3:45 – 4:10 pm Handedness in Detecting Deception in Cultural Interviews
Mathew Jensen (OU), Thomas Meservy (UM), Judee Burgoon and Mary Burns (U of A)
- 4:10 – 4:35 pm Rapid Assessment Using Kiosk-based Interviews, II
Mark Patton, Judee Burgoon and Jay Nunamaker (UA)
- 4:35 – 5:00 pm Phase 1 - Participation in the Multi-Biometric Grand Challenge
Stephanie Schuckers (Clarkson), Natalia Schmid (WVU) and Besma Abidi (UT)
- 5:00 – 5:25 pm Evaluating and Integrating Speech Recognition Software into Agent99 for Real Time Deception Detection
Kevin Moffitt, Mary Burns, Sean Humpherys, Judee Burgoon (UA)
- 5:25 pm Day 1 Wrap-up
- 6:30 pm **Reception and Dinner**
Skyline Country Club, 5100 St. Andrews Dr.
(see map)

WEDNESDAY, OCTOBER 28, 2009

- 8:00 - 8:30 am **Meeting Registration & Continental Breakfast**

PROGRESS REPORTS AND DISCUSSION (PARALLEL SESSIONS)
(12 MIN PRESENTATIONS, 8 MIN DISCUSSION)

Session A (214 McClelland Hall)

- 8:30 - 8:50 am On the Super-Resolution of Iris Images from Video Streams
P. Flynn (ND) and A. Ross (WVU)
- 8:50 – 9:10 am Models for Age Invariant Face Recognition
Anil Jain (MSU)
- 9:10 – 9:30 am Detecting and Extracting Macro-Features in Iris Images
Arun Ross, Larry Hornak and X. Li (WVU)
- 9:30 - 9:50 am Matching and Retrieving of Face Images Based on Facial Marks: Phase 2
Anil Jain (MSU)

- 9:50 - 10:10 am PRESS (Program for Rate Estimation and Statistical Summaries) version 2.0
Michael Schuckers (St. Lawrence University) and Daqing Hou (Clarkson)
- 10:10 - 10:30 am **Break**
- 10:30 – 10:50 am Large Scale Evaluation of Quality Based Fusion Algorithms
Bojan Cukic, Nathan Kalka (WVU) and Anil Jain (MSU)
- 10:50 – 11:10 am BioFuse: A Matlab™ Platform for Designing & Testing Biometric Fusion Algorithms
Arun Ross (WVU) and Anil Jain (MSU)

Session B (430QQ McClelland Hall)

- 8:30 – 9:50 am Four Investigations of Verbal and Nonverbal Indicators of Deception:
- Linguistic Dynamics in Criminal Interviews
Matthew Jensen, Norah Dunbar (OU), Judee Burgoon (UA), Stan Slowik (Slowik Investigations)
- The Effects of Power and Modality on the Detection of Deception
Norah Dunbar, Matthew Jensen (OU), Judee Burgoon (UA)
- Observational Coding of Deceptive and Truthful Interviewees from Varied Cultural Orientations
Judee Burgoon (UA), Norah Dunbar, Matthew Jensen (OU)
- Enhancing Tools for Coding Human Behavior: C-BAS
Thomas Meservy (U Memphis)
- 9:50 – 10:10 am Application of Automated Linguistic Analysis to Deception Detection in 911 Homicide Calls
Mary Burns, Kevin Moffitt, Sean Humpherys, Judee Burgoon, Jay Nunamaker (UA), Tracy Harpster (Moraine PD)
- 10:10 - 10:30 am **Break**
- 10:30 – 10:50 am Economical, Unobtrusive Measurement of Postural Correlates of Deception
Christopher Lovelace, Reza Derakhshani, Gregory King (UMKC), Judee Burgoon, Mark Patton (UA)

**NEW PROJECT PROPOSALS, PARALLEL SESSIONS
(10 MIN PRESENTATION, 10 MIN DISCUSSION)**

Session A (214 McClelland Hall)

- 11:10 – 11:30 am Iris Segmentation Quality Analysis: Prediction and Rectification
Bojan Cukic, Arun Ross, Nathan Kalka (WVU)
- 11:30 – 11:50 am Impact of Age and Aging on Iris Recognition
Stephanie Schuckers (Clarkson), Jeremiah Remus, Nadya Sazonova, Lawrence Hornak, Arun Ross (WVU)
- 11:50 – 12:10 pm Enhancement and Quality Assessment Schemes for Rapid DNA Analysis
Jeremy Dawson, Arun Ross (WVU LCSEE), Tina Moroosse (WVU Forensic Sci.), Larry Hornak (WVU LCSEE)

Session B (430QQ McClelland Hall)

- 11:10 – 11:30 am SPLICE: Integrating Agent99, LIWC and Building an Accessible Platform for Future Tool Building
Kevin Moffitt, Jeff Jenkins, Judee Burgoon (UA)
- 11:30 – 11:50 am It's the Network: Knowledge Sharing Systems for Credibility Assessment
Nathan Twyman, Jay Nunamaker (UA)
- 11:50 – 12:10 pm Automated Deception Systems: To Believe or Not to Believe?
Aaron Elkins, Nathan Twyman, and Judee Burgoon (UA)
- 12:10 – 1:30 pm **Lunch at Reddington Room, Student Union**

**NEW PROJECT PROPOSALS CONTINUED, JOINT SESSION
(214 McClelland Hall)**

- 1:30 – 1:50 pm Identifying Hidden Patterns from Facial Expressions
Koren Elder (UA-CMI), Nicholas Michael (Rutgers), Aaron Elkins (UA-CMI), Judee Burgoon (UA-CMI), Dimitris Metaxas (Rutgers), Magnus Magnusson (U Iceland)
- 1:50 - 2:10 pm Face Recognition from Arbitrary Viewpoints: Is it Possible?
Guodong Guo, Arun Ross, and Xin Li (WVU)
- 2:10 – 2:30 pm Automatic Annotation and Rapid Retrieval of 2D Faces from a Large Database
T. Bourlai, Arun Ross (WVU)
- 2:30 - 2:50 pm Distributed Face Recognition using a Network of Smart Cameras
Vinod Kulathumani, Arun Ross, Bojan Cukic (WVU)
- 2:50 - 3:10 pm Human Age Estimation and Crossing-Age Face Recognition
Guodong Guo (WVU)

- 3:10 – 3:30 pm **Break**
- 3:30 - 3:50 pm Animating the Automated Deception Analysis Machine (ADAM)
Doug Derrick, Koren Elder, Jeff Jenkins, Judee Burgoon (UA)
- 3:50 – 4:10 pm Multimodal Fusion Vulnerability to Non-zero Effort (Spoof) Imposters
Stephanie Schuckers (Clarkson), Arun Ross (WVU), Bozhao Tan
- 4:10 – 4:30 pm Synergistic Recognition: A Multi-sensor Approach to Human
Identification
*Thirimachos Bourlai, Lawrence Hornak, Arun Ross, Jeremy Dawson
(WVU)*
- 4:30 – 4:50 pm Fusing Biometric and Biographic Information in Identification Systems
Arun Ross (WVU), Anil Jain (MSU), Don Adjeroh (WVU)
- 4:50 – 5:10 pm Public Perceptions of Deception: Baseline of Americans' Perceptions
of Lying and Detection of Deception
*Hank Jenkins-Smith, Carol Silva, Judee Burgoon, Matthew Jensen (OU);
Aaron Elkins (UA)*
- 5:10 – 5:30 pm Detecting, Restoring and Matching Altered Fingerprints
Anil Jain (MSU), Arun Ross (WVU)
- 5:30 pm **Day 2 Wrap-Up**

Dinner on your own (see restaurant recommendations)

THURSDAY, OCTOBER 29, 2009

**AFFILIATE BUSINESS MEETING
214 MCCLELLAND HALL
(AFFILIATES ONLY)**

- 8:00 - 8:30 am **Continental Breakfast**
- 8:30 - 9:00 am Affiliate Advisory Board Business Meeting
Chris Miles, Chair; Center Co-Directors
- 9:00 - 10:30 am Project Reviews and New Project Recommendations
Chris Miles, Chair; David Tansik, CITeR Evaluator
- 10:30 - 11:00 am Summary of Action Items, Closing Remarks, Adjourn
- 11:00-12:00 pm **Boxed Lunch for Affiliates**