

# Credibility Assessment and Information Quality in Government and Business

## Hawaii International Conference on System Sciences

January 5, 2010

**09:00-09:05**     **Welcome**  
Conference Chairs

Matthew L. Jensen\*, Thomas O. Meservy\*\*, Judee K. Burgoon\*\*\*, Jay F. Nunamaker, Jr.\*\*\*  
\*University of Oklahoma, \*\*University of Memphis  
\*\*\*DHS Center of Excellence for Border Security and Immigration  
\*\*\*University of Arizona

### Session 1

**09:05 - 09:40**     **Suspicion in Synchronous Computer-Mediated Communication: Preliminary Results**  
Michael Woodworth\*, Jeff Hancock\*\*, Ava Agar\*\*\*, Nicole Cormier\*\*\*\*, Tara  
Carpenter\*\*\*\*  
\* UBC Okanagan, \*\* Cornell University, \*\*\* University of Saskatchewan, \*\*\*\* Ryerson  
University

**09:40 - 10:15**     **Culture and Deception in Computer-Mediated Communication**  
Carmen C. Lewis \*, Joey F. George\*\*, Gabriel A. Giordano\*\*\*  
\* Troy University, \*\* Florida State University, \*\*\*University of Navarra

**BREAK (30 min)**

### Session 2

**10:45 - 11:20**     **The Influence of Power, Deception and Dominance on Credibility and  
Decision- Making Outcomes**  
Norah E. Dunbar, Matthew L. Jensen, Judee K. Burgoon, Elena Bessarabova,  
Daniel Rex Bernard, Kylie J. Robertson, Katherine M. Kelley,  
Bradley Adame, Jacqueline M. Eckstein  
University of Oklahoma

**11:20 - 11:55**     **Automated Kinesic Analysis for Deception Detection**  
Judee K. Burgoon\*, Matthew L. Jensen\*\*, Nathan W. Twyman\*, Thomas O. Meservy\*\*\*,  
Dmitris N. Metaxas\*\*\*\*, Nicholas Michael\*\*\*\*, Koren Elder\*, Jay F. Nunamaker\*  
  
\* University of Arizona, \*\* University of Oklahoma, \*\*\* University of Memphis, \*\*\*\* Rutgers  
University

**LUNCH ON YOUR OWN (12:00 - 13:00)**

### Session 3

**13:00 - 13:35 Strategies for Persuasive Deception in CMC**

Norah E. Dunbar, Matthew L. Jensen, Judee K. Burgoon, Elena Bessarabova,  
Daniel Rex Bernard, Kylie J. Robertson, Katherine M. Kelley,  
Bradley Adame, Jacqueline M. Eckstein  
*University of Oklahoma*

**13:35 - 14:15 Cardiovascular Responses during the Mock Crime Interviews: Assessment Using Laser Doppler Vibrometry**

Douglas C. Derrick, Aaron C. Elkins, Judee K. Burgoon  
*University of Arizona*

**BREAK (30 min)**

### Session 4

**14:45 - 15:20 Using Eye Tracking Technology as a Concealed Information Test**

Nathan W. Twyman\*, Kevin C. Moffitt\*, Judee K. Burgoon\*, Frank Marchak\*\*  
*\* University of Arizona, \*\* Veridical Research and Design Corporation*

**15:25 - 16:00 Psychophysiological Responses during Rapid Noncontact Credibility Assessment: Blink Analysis**

Brent Langhals, Judee K. Burgoon, Koren L. Elder  
*University of Arizona*

# Credibility Assessment and Information Quality in Government and Business

## Hawaii International Conference on System Sciences

January 6, 2010

### Session 1

- 08:00 - 08:30**    **Improving the Primary Screening Process at North American Ports of Entry**  
Elyse Golob and Aaron C. Elkins  
*University of Arizona*
- 08:30 - 09:00**    **Facial Thermal Imaging as a Technique for Deception Detection**  
Kevin C. Moffit, Mary B. Burns, Jeff Jenkins, Judee K. Burgoon, Jay F. Nunamaker, Jr.  
*University of Arizona*
- 09:00 - 09:30**    **Disfluency Rate as a Paralinguistic Cue to Deception Among Native and Nonnative English Speakers**  
Sean L. Humpherys, Katherine E. Carl, Judee K. Burgoon, Jay F. Nunamaker  
*University of Arizona*

**BREAK (30 min)**

### Session 2

- 10:00 - 10:30**    **Developing a Prototype Kiosk for Delivering Deception Detection Decision Support**  
Mark W. Patton, Jay F. Nunamaker, Jr., William T. Neumann, Judee K. Burgoon  
*University of Arizona*
- 10:30 - 11:00**    **Kiosks in Practice in the European Union**  
Juha Knuuttila  
*Laurea University of Applied Sciences*
- 11:00 - 11:30**    **Evaluating the Credibility Assessment Capability of Vocal Analysis Software**  
Aaron C. Elkins  
*University of Arizona*

**LUNCH (11:30 - 12:30)**

**KEYNOTE LECTURE (12:45 - 13:50)**

### Session 3

- 14:00 - 15:00**    **Maritime Security**  
Roy Wilkens  
*National Center for Island, Maritime & Extreme Environment Security, University of Hawaii*
- 15:00 - 15:30**    **Airborne Security Information Acquisition**  
Harri Ruoslahti  
*Laurea University of Applied Sciences*