



Workshop
**Artificial Intelligence for
Screening and Decision Support at Border Crossings**

28-29 September 2010
Dago Center, Warsaw, Poland

Tuesday, 28 September

8:30 – 9:00 – Registration

9:00 – 9:45 Welcome and Introductions

Welcome and Frontex Remarks

Edgar Beugels

Head of Research and Development Unit
Frontex

Introductions

All workshop participants

Workshop Goals and Objectives

Dr. Jay F. Nunamaker, Jr.

Regents and Soldwedel Professor of MIS, Computer Science, and
Communication
Director, National Center for Border Security and Immigration
University of Arizona

BORDERS Center of Excellence Overview

Dr. Elyse Golob

Executive Director, National Center for Border Security and Immigration,
University of Arizona

9:45 – 10:30 Operational Challenges of U.S. Customs and Border Protection

ThinkTank Overview

Douglas Derrick

Researcher, National Center for Border Security and Immigration

University of Arizona

Screening Processes Needs and Requirements

Dr. Jay F. Nunamaker, Jr.

Regents and Soldwedel Professor of MIS, Computer Science, and
Communication

Director, National Center for Border Security and Immigration

University of Arizona

Douglas Derrick

Researcher, National Center for Border Security and Immigration

University of Arizona

10:30 – 11:00 Coffee Break

11:00 – 12:00 Operational Challenges and Best Practices

Operational Challenges of EU Border Guards

All workshop participants

ThinkTank session led by

Harri Ruoslahti

Principal Lecturer, Laurea University of Applied Sciences, Finland

Douglas Derrick

Researcher, National Center for Border Security and Immigration

University of Arizona

12:00 – 13:00 Lunch

13:00 – 17:00 Demonstrations of Prototype Tools (Break into Groups)

Group #1

13:00 – 15:00 Avatar kiosk, infrared camera, coffee break

15:00 – 17:00 Assisted vs. unassisted credibility assessment

Group #2

13:00 – 15:00 Assisted vs. unassisted credibility assessment, coffee break

15:00 – 17:00 Avatar kiosk, infrared camera

Demonstration Descriptions

Avatar Kiosk and Infrared Camera

- Demonstrate interactions/interface with avatar

- Discuss alternate faces and reactions
- Response to interface
- Interaction with infrared camera
- Data capture for overnight analysis

Assisted vs. Unassisted Deception Detection Decisions

- Introduction
- Unaided credibility assessments
- Overview of sensors and supporting agents
- Aided credibility assessments
- Decision discussion

Wednesday, 29 September

9:00 – 9:30 Successful Indicators for Detecting Deception and Hostile Intent

What works well and what does not

All workshop participants

ThinkTank session led by *Douglas Derrick*

Researcher, National Center for Border Security and Immigration
University of Arizona

9:30 – 10:30 Behavioral Cues of Deception

Behaviors and Technologies for Non-Invasive Deception
Detection

Dr. Judee K. Burgoon

Site Director, US National Science Foundation Center for Identification
Technology Research, University of Arizona

Aaron Elkins

Researcher, National Center for Border Security and Immigration
University of Arizona

10:30-11:00 Coffee Break

11:00 – 12:00 Physiological Cues of Deception

Physiological Cues and Technologies for Non-Invasive
Deception Detection

Dr. Judee K. Burgoon

Site Director, US National Science Foundation Center for Identification
Technology Research, University of Arizona

Aaron Elkins

Researchers, National Center for Border Security and Immigration
University of Arizona

12:00 – 13:00 Lunch

13:00 – 15:00 Demonstration Results

Infrared Camera

Vocalics

Aided vs. Unaided Decisions

Douglas Derrick, Aaron Elkins

Researchers, National Center for Border Security and Immigration
University of Arizona

15:00 - 15:30 Coffee Break

15:30 – 16:30 Ethical Issues

What are the ethical issues facing border guards?

Dr. Soile Juujärvi

Principal lecturer, Laurea University of Applied Science, Finland

16:30 – 17:00 Workshop Wrap-up Session

Final Thoughts and Questions

Dr. Jay F. Nunamaker, Jr.

Director, National Center for Border Security and Immigration
University of Arizona

Feedback Survey

All workshop participants

Closing Remarks

Edgar Beugels

Head of the Research and Development Unit, Frontex