

Human Factors Issues in Combat Identification & Human Factors Issues in Imagery Analysis using UAV's Joint Workshop Events

Gold Canyon Golf Resort & Conference Center

Wednesday, May 14th 2008 – Resort Pavilion

Interactive Poster-Demo Session

3:00 pm to 5:30 pm

*Resort Pavilion –
Light refreshments served and
cash bar available.*

Both topics will be represented in Poster and Demonstration form during this time.

Human Factors Issues in Combat Identification

Presenter: Krisstal Clayton, NMSU, **Using State Trace Analyses to Measure Effects of Automation Errors on Cognitive Processes**

Human Factors Issues in Imagery Analysis using UAV's

Presenters: Doug Limbaugh and Jeff Getzlaff - Kutta Technologies
Title: **Bi-Directional Remote Video Transceiver (BDRVT), Unified Ground Control Station (UGCS), Network-Centric Distributed UAV Access System**

Presenters: Dr. Bill Marshak and Dominic Bartek - Sytronics, Inc.
Title: **Retrofitting Mission Essential Supplemental Information into Existing Ground Control Stations**

Presenter: Dr. Ericka Rovira, US Military Academy
Title: **The Development of A Decision Support Tool to Dynamically Re-task Intelligence Surveillance and Reconnaissance Assets**

Presenter: Jay Shively, US Army/ARMDEC
Title: **Playbook® Control of Multiple UAS in a Coordinated Target Engagement"**

Event Dinner

6:00 pm to 8:00 pm

Please join us for an Event Dinner (with cash bar) which will be served on the pavilion of The Gold Canyon Golf Resort.
A pre-purchased Dinner Ticket is required.

Human Factors Issues in Imagery Analysis using Unmanned Aerial Vehicles

Gold Canyon Golf Resort & Conference Center

Thursday, May 15, 2008 – Upper Towne Hall Meeting Space

7:15 am to 8:00 am	Workshop Check in; AM Beverage Service
8:00 am to 8:10 am	Opening Comments: Dr. Nancy Cooke , Arizona State University and Cognitive Engineering Research Institute
Human Imagery Analysis Performance	
8:10 am to 8:35 am	Presenter: Bill Evans , University of Central Florida Title: The Effects of Motion on ROV Target Identification Tasks
8:35 am to 9:00 am	Presenter: Michael Curtis , University of Central Florida Title: Usability of Image Generation Platforms to Produce Oblique Viewpoints
9:00 am to 9:25 am	Presenter: Thomas Fincannon , University of Central Florida Title: Constructs of Spatial Ability and Their Influence on Performance with Unmanned Systems
9:25 am to 9:50 am	Presenter: Joseph Keebler , University of Central Florida Title: A Cognitive Basis for Combat Misidentification
9:50 am to 10:20 am	Break
Technology for Improving Human Imagery Analysis Performance	
10:20 am to 10:45 am	Presenter: Patricia McDermott , Alion Science and Technology Title: To send or not to send: Does the transmission of unmanned vehicle imagery help or hinder Soldier performance?
10:45 am to 11:10 am	Presenter: Lamar Warfield , Air Force Research Laboratory Title: Multi-Video Inspection Performance: Results of 3 Preliminary UAV Studies
11:10 am to 11:35 am	Presenter: Dr. Ryan Kilgore , Charles River Analytics, Inc. Title: Determining the Impact of Haptic Peripheral Displays for UAV Operators
11:35 am to 12:00 pm	Presenter: Doug Limbaugh , Kutta Technologies Title: CONOPS for the Army's new Bi-Directional Remote Video Transceiver (BDRVT)
12:00 pm to 1:10 pm	Lunch will be served on the Towne Hall Patio.

Human Factors Issues in Imagery Analysis using Unmanned Aerial Vehicles

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Thursday, May 15, 2008 (continued)

	Perspectives on Improving Human Imagery Analysis Performance
1:10 pm to 1:30 pm	Presenter: Bruce Hunn , Army Research Laboratory Title: Imagery Analysis Enhancement by the Synthetic Sensation Approach to Information Integration (SSAI)
1:30 pm to 1:50 pm	Presenter: Gloria Calhoun , Air Force Research Laboratory Title: Augmentations for Enhancing UAV Video Display Utility
1:50 pm to 2:10 pm	Presenter: Commander Jeff Huddleston , NAVAIR Title: UAV Imagery and the Next Step
2:10 pm to 2:30 pm	Presenter: Dr. Jim Staszewski , Carnegie Mellon University Title: Models of Human Expertise as Blueprints for Instruction
2:30 pm to 2:50 pm	Presenter: MSgt. Claude Ezzell , United States Air Force Title: The New Era of Critical Thinking for the Imagery Analyst
2:50 pm to 3:15 pm	Break
Panel Session	Panel on Improving Human Imagery Analysis Performance
3:15 pm to 4:50 pm	Panelists: Bruce Hunn, Dr. Jim Staszewski, MSG Claude Ezzell, Commander Jeff Huddleston , Ft. Huachuca sensor operators: 1SG Donald Pezzatta, 1SG Andrew Delcourt, and SSG Jonathan Hoehn Facilitator: Dr. Nancy Cooke This eclectic panel of UAV operators, researchers, and engineers will discuss and attempt to integrate the perspectives offered in the preceding paper session. It will then lead the workshop in a discussion regarding future research and development needs in this area.
Summary 4:50 pm to 5:00 pm	Closing Comments: Dr. Nancy Cooke , Arizona State University and Cognitive Engineering Research Institute