Sixteenth Advanced Development for Security Applications Workshop (ADSA16):

Addressing the Requirement for Different Stakeholders in Transportation Security

Workshop Objectives



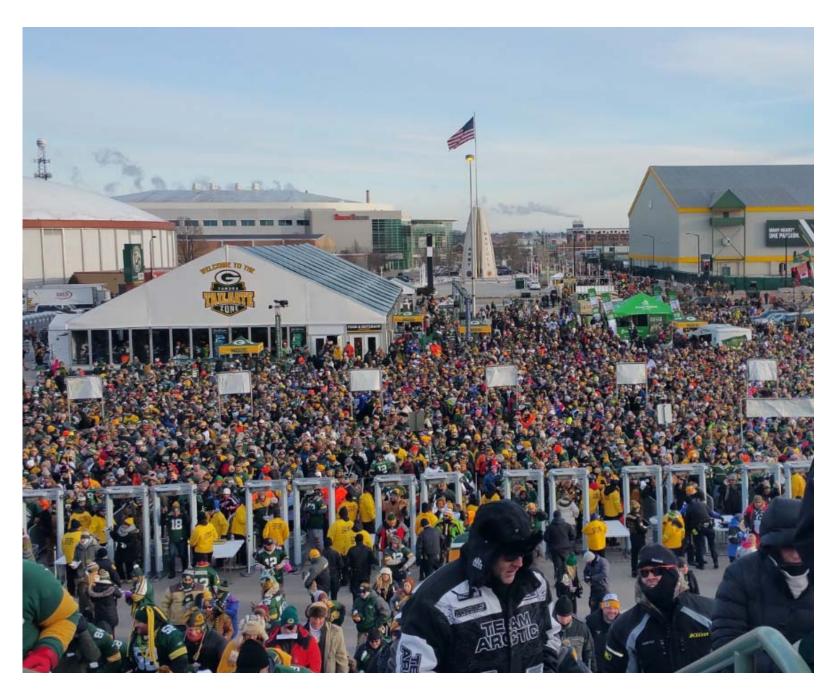
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So What? Who Cares?

- Competing goals for aviation security
 - Terrorist
 - Still trying to disrupt aviation security, smart adapting adversary
 - Strengthen security
 - More threats, lower mass
 - Increase operational efficiency
 - Reduce costs, labor, footprint, deployment time/effort
 - Improve passenger experience
 - · Reduce divesture, wait time
- Still no silver bullets
 - No emerging technologies can satisfy all competing objectives just incremental improvements
- More problems
 - Long wait times predicted for this summer
 - Possible TSA budget cuts
 - Laptops banned on some international flights
 - Displacement bomb threats at Jewish community centers and schools, London Parliament
- ADSA16 objectives finding solutions to problems examples:
 - Allocate funding differently scan some people less, some more, spend more on baggage claim
 - Get more performance from existing equipment
 - Marco-security use additional information "Google Security," deterrence
 - Balance the competing goals
 - Predict and accept more risk is terrorism just crime? Accept false negatives?

ADSA Format

- This is a workshop, not a conference
 - Speakers are instructed to begin with "So What? Who Cares?" (elevator speech)
 - Conversation and questions are expected at all times, especially during presentations after first slide
 - Optimal presentation ends after first slide
- Public domain no SSI or classified material
- No speaker introductions; read handouts



Does solving one problem lead to another?

BACKUP SLIDES

DHS Tactics

- Augment abilities of vendors with 3rd parties
 - Academia
 - National labs
 - Industry other than the vendors
- Create centers of excellence (COE) at universities
- Hold workshops to educate 3rd parties and discuss issues with involvement of 3rd parties
 - Algorithm Development for Security Applications (ADSA)
- Forage for technology in other fields

Equipment Requirements

- Probability of detection (PD)
- Probability of false alarm (PFA)
- FA resolution
- # types of threats
- Minimum mass
- Minimum sheet thickness
- Total cost of ownership
 - Purchase price
 - Siting
 - Labor
 - Maintenance

- Extensibility
- Ability to fuse
- Compatible with riskbased screening
- False alarm resolution methodologies
- Siting
- HVAC, space, weight shielding
- Throughput
- Safety

Questionnaire

- Request for everyone to answer questions preferably during the workshop
- ~10 questions 10 minutes
- Available via Survey Monkey

https://www.surveymonkey.com/s/ADSA16



Minutes

- Minutes of discussion will be taken
 - Sensitive information to be redacted
- Please identify yourself and your institution first time you speak
- Suriyun Whitehead, thank you for taking minutes

Archival Materials

- Final reports and presentations from previous ADSAs
- Final reports from projects to CT-based EDS
 - Segmentation
 - Reconstruction
 - ATR

https://myfiles.neu.edu/groups/ALERT/strategic_studies/

Acknowledgements

- Northeastern University (NEU)
- Awareness and Localization of Explosives-Related Threats (ALERT) DHS Center of Excellence
- Department of Homeland Security (DHS)
- Presenters
- Participants







Logistics

- Melanie Smith, lead
- Tiffany Lam
- Deanna Beirne
- Kristin Hicks
- Anne Magrath

Let them know if you need support during or after workshop.

Final Remarks

- "Terrorism causes a loss of life and a loss of quality of life," Lisa Dolev, Qylur
- Need improved technology
- Thank you for participating



VENDOR PANEL DISCUSSION

Vendor Panel Discussion

- What could be done to decrease the time to deploy new technologies?
- What barriers have to be reduced for vendors to increase their own investment in new technologies?
- What can be done to cause vendors to work on long-term, high risk detection systems?
- How should third-parties (e.g., academia, national labs and industry other than the security vendors) be involved in the development of new technologies?

AIRLINE/AIRPORT PANEL DISCUSSION

Airline/Airport Panel Discussion

- How to balance competing goals
- Strengthen security
 - More threats, lower mass, smart adapting adversary
- Increase operational efficiency
 - Reduce costs, labor, footprint, deployment time/effort
- Improve passenger experience
 - Reduce divesture, wait times