



ALERT
AWARENESS AND LOCALIZATION
OF EXPLOSIVES-RELATED THREATS

Awareness and Localization of Explosives-Related Threats (ALERT)

*ALERT is supported by the Department of Homeland Security (DHS)
Science and Technology (S&T) Directorate through the
Office of University Programs (OUP)*

**Advanced Development for Security Applications (ADSA) Workshop 18:
Collection and Use of Metadata for Improving Aviation Security Systems**

May 15-16, 2018

17th Floor Event Space, East Village
(291 Saint Botolph Street, Boston, MA 02115)
Northeastern University, Boston, MA

AGENDA

Tuesday, May 15, 2018 - Day 1

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
8:30 AM		Introductions	
8:30 AM	Welcoming Remarks - ALERT	Michael Silevitch	Northeastern University / ALERT
8:35 AM	Welcoming Remarks - Dean of Engineering	Nadine Aubry	Northeastern University
8:40 AM	Welcoming Remarks	Laura Parker	Department of Homeland Security
8:45 AM	Setting the Stage	Carl Crawford	Csuptwo
9:00 AM	Video Tracking of Passengers and Divested Objects & Adaptive ATR Program Reviews	Carl Crawford	Csuptwo
9:03 AM	ADSA-CBP-01 - Customs and Border Protection	Carl Crawford	Csuptwo
9:05 AM		DHS/TSA Perspectives	
9:05 AM	TSA Strategy	Jason Lim	Transportation Security Administration
9:05 AM	Apex Screening at Speed	John Fortune	Department of Homeland Security
9:30 AM		TSA Initiatives	
9:30 AM	Machine Learning Opportunities at TSA	Frank Cartwright	Transportation Security Administration
9:45 AM	TSA Architecture Activities	Doug MacIvor	Transportation Security Administration

Time	Topic	Speaker	Affiliation
10:05 AM	Modular Screening System Architecture	Matt McGlynn	Mitre
10:25 AM	Open Architecture Benefits	Amir Neeman	Amir Neeman Consulting
10:45 AM	Enterprise Architecture Analysis of TSA Biometrics data	Ramana Kasibotla	Transportation Security Administration
11:05 AM	Break		
11:30 AM	Identification of Malicious Intent		
11:30 AM	Identification of Malicious Intent	Arno Michaelis	Serve 2 Unite
11:50 AM	Identification of Malicious Intent	Pardeep Kaleka	Serve 2 Unite
12:10 PM	Family Impact of Extremism	Myrieme Nadri-Churchill	Parents for Peace
12:25 PM	Collection and Use of Metadata		
12:25 PM	Metadata for ATR	Matthew Merzbacher	Smiths Detection
12:55 PM	Who Should or Could be a Good Transportation Security Officer?	Mark Frank	University at Buffalo, State University of New York
1:15 PM	Lunch		
2:00 PM	Legal and Civil Liberties		
2:00 PM	Civil Liberties and Metadata	Jay Stanley	American Civil Liberties Union
2:40 PM	Airline Perspectives		
2:40 PM	Airline Perspective	Gene Maddox	American Airlines
3:00 PM	Cybersecurity		
3:00 PM	Commercial Practices for Cybersecurity	Lyle Sudin	Mandiant
3:20 PM	Cybersecurity – Endpoint Protection	Sean McGaughey	General Dynamics
3:40 PM	Cybersecurity: Compliance Borne Insecurities	Avi Kak	Purdue
4:00 PM	Break		
4:25 PM	Development Methods and Financial Implications		
4:25 PM	AAPM Low Dose CT Challenge	Lifeng Yu	Mayo Clinic
4:50 PM	Prize Competitions	John Fortune Brian Lewis	Department of Homeland Security Noblis
5:20 PM	Economic Impact and Methods to Reduce Economic Loss	William Burns	California State University San Marcos
5:45 PM	Industry Update	Mark Laustra	Analogic
6:00 PM	Adjourn	Carl Crawford	Csuptwo



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AGENDA

Wednesday, May 16, 2018 - Day 2

Time	Topic	Speaker	Affiliation
7:30 AM	Check-in/Breakfast		
8:00 AM	Call to Order	Carl Crawford	Csuptwo
8:05 AM	Deep Learning & Other Algorithms (Part I)		
8:05 AM	Neural Network Based Metal Artifact Correction	Yanbo Zhang	University of Massachusetts Lowell
8:30 AM	Next Generation Checkpoints for On-The-Move Threat Detection	Jose A. Martinez Lorenzo	Northeastern University
8:55 AM	Deep Learning with Minimal Training Data	Simon Streltsov	LongShortWay Inc.
9:20 AM	Face Recognition on the Move	Ilan Arnon	Face4 Systems
9:45 AM	Adaptive Automated Threat Recognition Algorithms	Marc Vaillant	MIT Lincoln Labs
10:10 AM	Break		
10:35 AM	Airplane Cargo - Panel Discussion		
10:35 AM	Airline Cargo	Elizabeth Merritt	Airline for America
		Gene Maddox	American Airlines
		Jim LoBello	Lufthansa Cargo
		Alex Rodriguez	Fedex
		Thayne Worsley	Panalpina
		Allan Collier	TSA
11:40 AM	Deep Learning & Other Algorithms (Part II)		
11:40 AM	Unexpected Item in the Bagging Area: Anomaly Detection in X-ray Security Images	Lewis Griffin	University College London

Time	Topic	Speaker	Affiliation
12:05 PM	Lunch		
12:50 PM	Single-exposure Materials Classification for Portable Threat Detection	Tamzin Lafford	IBEX Innovations
1:15 PM	3D images - Besides being cool, what are they actually good for?	Yotam Margalit	Self
1:35 PM	DICOS and Networking Deployment - Panel Discussion		
1:35 PM	DICOS Deployment	Steve Skrzypkowiak Suriyun Whitehead Matthew Merzbacher Doug Bauer	Self Booz Allen Hamilton Smiths Detection Global Security Technologies
2:30 PM	Break		
2:55 PM	Trace Detection		
2:55 PM	Trace Detection and Metadata	David Atkinson	Pacific Northwest National Lab
3:20 PM	Next Steps		
3:20 PM	Summary and Next steps	Harry Martz Suriyun Whitehead Carl Crawford	Lawrence Livermore National Laboratory Booz Allen Hamilton Csuptwo
3:50 PM	Closing Remarks		
3:50 PM	Closing Remarks	Michael Silevitch	Northeastern University /ALERT
3:55 PM	Closing Remarks	Laura Parker	Department of Homeland Security
4:00 PM	Adjourn	Carl Crawford	Csuptwo