

ADEPT05: What Did We Hear?

Harry Martz, Lawrence Livermore National Laboratory

July 2023

What Did We Hear?

- CBP faces challenges
 - Diverse, broadly defined, evolving threats
 - Volume of goods and people entering the country
 - Challenges with staffing
 - Networking and standards
 - How to differentiate similar goods
- AI may help, but there are difficulties
 - Not applicable to all problems
 - Data availability & governance
 - Lack of understanding about mission & problems
 - CBP is not TSA
 - How do we trust algorithms?
 - Currently good for augmenting, not replacing humans
 - Regulatory challenges
 - Non-AI algorithms also exist
- Data
 - WCO UFF and/or DICOS standards sufficient
 - Need mechanisms for data access
 - Trusted partners
 - Academia
 - Find ways to develop datasets outside the government
 - Consider synthetic, threat insertion, scans on equivalent scanners, use miniaturized cargo
 - Labels and other metadata may not be released
- International participation important
 - For sharing problems and data
- Consider clearing v. detection
 - Offload agents, allow them to concentrate on what's important
- Non-NII applications of algorithms
 - Video, manifests, unstructured data

ADEPT06

- Possible topics
 - More from CBP (60 AI projects)
 - Deployment of algorithms
 - Conception of operations
 - Alarm resolution
 - Command and control centers
 - Translating aviation security solutions to CBP
 - Financial incentives
 - Resource allocation
 - Layered and fused solutions
- Possible date: Summer 2024