Agenda

1200: Welcome, Introductions, Agenda Review.
1210: Review highlights of last MLAIWG meeting.
1215: State and Future of GEOINT Report 2019 Topic Discussion, Tradecraft ML & AI, Steven Thomas, Ball Aerospace.
1245: Draft ML-AI Lexicon, Peter Morosoff, E-MAPS.
1330: Updates from Sub-WGs.
1340: Wrap-up and next steps.
1345: Networking.
1. The meeting convened at noon in USGIF offices in Herndon, VA.

2. Guest speaker: David M. Isaacson, Ph.D. Program Manager, Machine Analytics Research, Office of the Director of National Intelligence. (Slides on USGIF MLAIWG website.)

3. Reviewed initial plan for November 2018 ML-AI workshop.

4. Sub-working group updates.
Steven Thomas, Ball Aerospace

State & Future of GEOINT 2019: Implementing ML & AI in GEOINT Tradecraft
Peter Morosoff, E-MAPS

ML & AI Lexicon
ML-AI Workshop, 13-14 Nov 18

Venue: NGA conference center in Springfield, VA.

Agenda: 1.5-day event, the first day being unclassified and the second day (half-day) being held at the TS/SCI level.

Proposed topics and themes of interest:

• Simulating training data (to enable training artificial neural networks).
• Preparing data for use in training ML and AI systems.
• How to train and prepare the workforce to work with ML and AI systems.
• Neuromorphic computing.

Topics specifically for the classified session might include:

• Hard problems of interest.
• Ground-breaking projects of interest (could be talks and/or demonstrations).
We’re behind schedule:

- Invitations to speakers
- Identify panel / session organizers

Current Planning Team:

- MLAIWG co-chairs (Kevin, Ted, Mike)
- Susan Gallagher, Amazon
- Other volunteers?
3. Identify the implications of ML and AI adoption for future GEOINT professionals education / training to help benefit the community.
   - Doug McGovern, IBM; Scott Jachimski, BAH; Peter Hanson, CTC.

4. Survey of ML and AI use in the GEOINT field today (AKA “State of ML and AI in GEOINT”), focusing on data sets and data sources.
   - Todd Bacastow, Radiant, Ian Eishen, USAF; Zslot Kira, GTRI.

5. Verification and validation of machine learning and AI tools and algorithms.
   - Kirstie Bellman & Chris Landauer, Aerospace Corp.; Tim Barr, Cray; Mark Skoog, NASA.

6. Developing a lexicon for machine learning and AI.
   - Ted Josue, Riverside Research; Cecelia Smith, Orbital Insight; Mark Knapp, Eastview; Chris Landauer, Aerospace Corp.; Peter Morosoff, E-mapsys; Mike Rampino, PSS Federal.
Wrap-up & Next Steps

- Review action items from this meeting.
- Around the room / phone for final comments.
- Networking immediately follows meeting.
- Upcoming MLAIWG events:
  - MLAIWG monthly meeting, 25 September, noon.
USGIF

Machine Learning & Artificial Intelligence Working Group

28 Aug 2018
MLAIWG Sub-WGs

Topic #3. Identify the implications of ML and AI adoption for future GEOINT professionals education / training to help benefit the community. Doug McGovern, IBM; Scott Jachimski, BAH; Peter Hanson, CTC. Contact Pete at hansonp@ctc.com or Scott at jachimski_scott@bah.com

Topic #4. Survey of ML and AI use in the GEOINT field today (AKA “State of ML and AI in GEOINT”), focusing on data sets and data sources. Todd Bacastow, Radiant, Ian Eishen, USAF; Zslot Kira, GTRI. Contact Todd at Todd.Bacastow@digitalglobe.com

Topic #5. Verification and validation of machine learning and AI tools and algorithms. Kirstie Bellman & Chris Landauer, Aerospace Corp.; Tim Barr, Cray; Mark Skoog, NASA. Contact Kirstie at kirstie.l.bellman@aero.org

Topic #6. Developing a lexicon for machine learning and AI. Ted Josue, Riverside Research; Cecelia Smith, Orbital Insight; Mark Knapp, Eastview; Chris Landauer, Aerospace Corp.; Peter Morosoff, E-mapsys; Mike Rampino, PSS Federal. Contact Peter at peter.morosoff@e-mapsys.com