

A faint, dotted world map is centered in the background of the slide. The map is composed of small grey dots that form the outlines of the continents. The slide has a blue header and footer with a white-to-blue gradient background.

USGIF

Machine Learning & Artificial Intelligence

Working Group

25 April 2017

Agenda

- 1200 – 1215 Welcome, Introductions, Agenda Review (USGIF & co-chairs).
- 1215 – 1230 Review discussion and minutes of previous MLAIWG meeting, held 16 March 2017 (All).
- 1230 – 1235 Presentation of finalized MLAIWG charter (Co-Chairs).
- 1235 – 1325 Discuss work plan details: the four topics and expressions of interest (All).
- Note: our desired outcome is to have identified sub-WG co-leads and participants for all topics the MLAIWG decides to pursue as part of the work plan.
- 1325 – 1345 MLAWIG participation in GEOINT 2017 (All).
- 1345 – 1400 Review next steps and wrap-up (co-chairs).

16 March MLAIWG Meeting

Review and discuss minutes

MLAIWG Charter

- Added academic participation, along with industry and government.
- Added decision-makers to 3rd objective.
- Added a 4th objective re: workforce training and development.

Work Plan Topics

1. Develop and deliver educational informational regarding advanced mathematical techniques and algorithms, elaborating on when and where to best apply each type of algorithm and how to reduce the number of false alerts.
2. Identify creative hardware for processing large amounts of data – can the MLAIWG help suggest how the government can build such an architecture?
3. Identify the implications of ML and AI adoption for future GEOINT professionals education / training(USGIF recommendation to help benefit the community).
4. Survey of ML and AI use in the GEOINT field today (AKA “State of ML and AI in GEOINT,” USGIF recommendation to help benefit the community).

Members' Interests

1. Develop and deliver educational informational regarding advanced mathematical techniques and algorithms, elaborating on when and where to best apply each type of algorithm and how to reduce the number of false alerts. **7 Expressed Interest**
2. Identify creative hardware for processing large amounts of data – can the MLAIWG help suggest how the government can build such an architecture? **6 Expressed Interest**
3. Identify the implications of ML and AI adoption for future GEOINT professionals education / training(USGIF recommendation to help benefit the community). **3 Expressed Interest**
4. Survey of ML and AI use in the GEOINT field today (AKA “State of ML and AI in GEOINT,” USGIF recommendation to help benefit the community). **4 Expressed Interest**

Work Plan Way Ahead

- Form sub-WGs to work on topics of interest.
- Identify two or three co-leads for each sub-WG.
- Co-leads organize interested members in the effort to address the topics, develop plans with milestones in collaboration with MLAIWG co-chairs, topic proposers, and broader MLAIWG membership.
- If all four topics find sufficient interest (member volunteers), pursue all four. Otherwise, trim work plan topic list to those with greatest interest.

MLAIWG at GEOINT 2017

MLAIWG GEOINT 2017 Panel

Title: The State of Machine Learning & Artificial Intelligence in GEOINT

Abstract: While ML and AI have already shown promise in GEOINT applications there remain many opportunities to build on successes and apply emerging technologies and techniques. This panel of government and industry representatives will share best practices/ lessons learned and identify opportunities for new applications of ML and AI capabilities.

WG Members: send panel member recommendations to MLAIWG@usgif.org.

Next Steps and Wrap-up

- Review action items from this meeting.
- Around the room / phone for final comments.
- Upcoming MLAIWG events:
 - 23 May 2017: MLAWIG monthly meeting (noon – 2 PM at USGIF).
 - MLAIWG GEOINT 2017 Panel (Tues, 4 PM).
 - 27 June 2017: MLAIWG monthly meeting (noon – 2 PM at USGIF).