

Naval Research & Development Enterprise (NRDE) - Applied Artificial Intelligence (A2I) Summit Questionnaire

ONR RFI Announcement # N00014-18-RFI-0009

This Questionnaire will be used to inform the development of a Naval Research & Development Enterprise (NRDE) Applied Artificial Intelligence (A2I) Summit. The information gathered will be vetted by a Government Advisory Board to build an initial Community of Interest (COI) and structure an agenda for the NRE A2I Summit. The objectives and approach are detailed in the accompanying announcement.

Applicant Information

Name

E-mail address

Citizenship

Government Clearance Type

US Citizen

Confidential

Permanent Resident

Public Trust

Foreign National

Secret

Other

NATO Secret

Other

If "Other" please describe below

If "Other" please describe below

Organization Type

Organization Name

Government

Industry

Academia

Non-Profit

Other

If "Other" please describe below

Organization's applied AI research focus (briefly)

Street address

Street address line 2

City

State

Zip code

Phone number

Past Experience

Have you or are you currently conducting research or developing applications for AI? (Yes/No)

Have you worked with the DoD before? (Yes/No)

Do you have (or have you previously had) AI technologies fielded in the DoD? (Yes/No)

If yes briefly describe the application or research purpose

Artificial Intelligence Background

In which areas do you have significant experience in the application of or research in AI?

Although we have highlighted some general areas of interest with respect to naval operations below--we encourage applicants to address applied AI topics and concepts that may have been overlooked in this rapidly developing field.

General Topics/Background (including but not limited to)

Analytics (can include marketing and brand recognition)

Mission Planning/Replanning & Execution Processes (can include general business processes/ long term planning/ task or mission objective planning/ resource planning/ course of action selection)

Logistics and Readiness

General A2I Challenges

Other

Please describe briefly

Below we have further elaborated on potential AI applications of interest. Please indicate all areas in which you have experience.

Analytics

Text/ Imagery & Video Analytics (Detection/ Identifications/ Content summarization/ and Sense making etc.)

Behavioral Analytics (Deriving activity / changes from Imagery/ Video/ Text/ acoustic data/ etc.)

Other

Please describe briefly

Planning/Replanning & Execution (can include general business processes/ long term planning/ task or mission objective planning/ resource planning/ course of action selection)

Execution or Business Process Assessment (answers questions such as-- how well are processes being executed? What course of action needs to change?)

Mission Planning/Re-planning & Execution Processes (Tools that support a staff of decision makers in developing plans/ tracking the interrelatedness of tasks or assets/ alerting to changes in the status of plan elements/ or critical assets (e.g. ship or sub-system availability/ detecting when key conditions or assumptions may not be valid/ and facilitating the development of alternative courses of action when a plan is no longer viable.)

Mission Process Assessment (e.g. Automated tools that provide feedback on communications/ progress towards accomplishing tasks or goals etc.)

Other

Please describe briefly

Logistics and Readiness

Personnel Management (having the right number and qualifications of people for the needed job space)

Training (training the appropriate type and number of qualifications/ maintaining proficiency/ managing career long learning continuum)

Maintenance (all levels of maintenance – organic through depot/factory level maintenance)

Supply (all levels of maintaining supply chain)

Energy generation and management

Other

Please describe briefly

General A2I Challenges

Developing and deploying AI in sparse and/ or uncertain data environments

Management and synchronization of data in a distributed operational environment

Decision making support tools for a distributed operational environment

Implications for denied and degraded environments on AI use

Development of unified (interoperable) AI architectures

Development of re-usable AI (e.g. AI as a service)

Issues related to the Human-AI Interface and visualizations

Verification / Validation / Accreditation (certification)

Other

Please describe briefly

Additional Questions. With respect to the preceding areas of interest-- please provide any additional information that you feel may be helpful to assist us in mapping you to an appropriate speaker panel.

Describe your type of AI approach (e.g. machine learning / constraint satisfaction problems etc.)

Describe your use of data (e.g. availability / training / operational / simulated) and challenges in dealing with data.

Describe your successes or lessons learned.

Identify any existing gaps in your area of expertise or research.

What do you think is needed to transition this approach or research area to the next level?

Please include any additional relevant questions/ topics/ ideas/ recommendations that may have not been captured in other areas of this questionnaire below.

Please send separate attachments for publications, briefings, or supporting material related to your work with AI that you think would be useful in defining an investment strategy for A2I. You may use the box below for hyperlinks to documents if you do not wish to send the documents themselves.