

DEFENSE

Systems Digest

The Latest From the Defense Systems Information Analysis Center // May 31, 2022



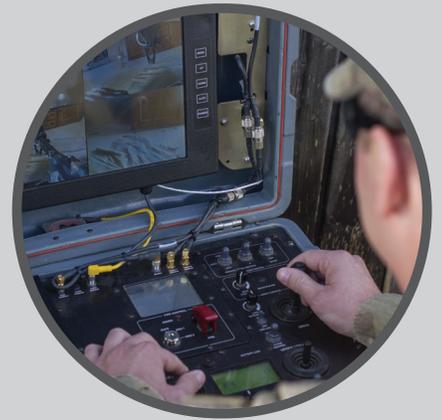
[SUBMIT A TECHNICAL INQUIRY](#)

DARPA

NOTABLE TECHNICAL INQUIRY

How can unmanned aerial vehicle (UAV) networks operate in contested and uncontested environments?

As military forces increasingly rely on remotely deployed, unmanned vehicles, the need for robust, secure, and reliable wireless communication becomes more vital than ever. Interference from dense urban environments and a congested radio frequency (RF) spectrum can lead to reduced operating range and loss of important reconnaissance data. In this report, various methods to combat the negative effects of RF congestion and electronic warfare are investigated. Ad-hoc networks, adaptive routing, and cognitive radio techniques can extend the operating range of a UAV, avoid... [READ MORE](#)



SNEAK PEEK

UPCOMING WEBINAR:

*Artificial Intelligence (AI)
Requirement Guidelines and
Precepts*

DATE:

June 8, 2022

TIME:

12:00 PM

PRESENTED BY:

Glen McCue, Melissa Rhoads

HOST:

DSIAC



VOICE FROM THE COMMUNITY

Anthony Allen

Senior Specialist and Mechanical Engineer, L3Harris Technologies

Anthony Allen is a research engineer with over 26 years of experience in the low observable field, radar cross section, computer-aided design, and Linux. In his current role as a mechanical engineer at L3Harris, he works on satellite hinges and swivels. He has also worked on missiles, fighter aircraft, trucks, ground-to-air rocket launchers, and helicopters, including outdoor testing on those components.

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MATTER EXPERT**



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HIGHLIGHT

JAS FY23 Proposal Review Meeting

On June 22-23, 2022, the Joint Aircraft Survivability (JAS) FY23 Proposal Review Meeting (PRM) will be held. It will focus on the presentation and final review of project proposals for the JAS FY23 program build. Participation is by invitation only and limited to proposal briefers and the review committee (JAS advisors, DOT&E, PMSG, SAR, and VAR subgroups). [LEARN MORE](#)

FEATURED NEWS

Intensity of Conflict Creates Unprecedented Need for Weapons, Munitions

The intensity of conflict in the 21st Century and the need for weapons and munitions has been a learning experience for American defense officials working to supply Ukraine for its fight against Russia.

William A. LaPlante, the Undersecretary of Defense for Acquisition and Sustainment, said the need "really outpaces anything we've seen in recent memory."

LaPlante spoke during a Pentagon news conference where he said European allies are seeing the same situation and all are working together to get the Ukrainians what they need. [READ MORE](#)

Image: U.S. Air Force





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U.S. Army

WEBINARS

Artificial Intelligence (AI) Requirement Guidelines and Precepts

Presented: June 8, 2022 12:00 PM - 12:45 PM

Presenter: Glen McCue, Melissa Rhoads

Host: DSIAC

The AISWG, established under the Office of the Director of Army Safety, provides a technically qualified advisory authority of stakeholders in AI safety. The objectives and goals of the AISWG are to proactively identify and resolve issues associated with the system safety assessment and testing of AI-enabled systems. In this webinar, we will present guidelines and precepts that should be included during the design and development of AI programs. Contractual language for AI systems should include information about AI regarding requirements for data sets, model information, and system safety analysis of AI, particularly the contribution of AI to system hazards. We will also briefly discuss information from other AISWG subgroups, specifically the Test and Evaluation and Risk... [LEARN MORE](#)



Human Agent Interaction for Intelligent Squad Weapon

July 13, 2022 12:00 PM



Microwave and Millimeter-Wave Imaging Techniques for Nondestructive Evaluation (NDE)

August 17, 2022 12:00 PM

EVENTS

69th JANNAF Propulsion Meeting

June 6-10, 2022

Warfighter Systems Summit

June 8-9, 2022

Military Standard 810 (MIL-STD-810) Testing Open Course (Cincinnati, OH)

June 13-16, 2022

90th Military Operations Research Society (MORS) Symposium

June 13-16, 2022

30th ASNT Research Symposium

June 20-23, 2022

JAS FY23 Proposal Review Meeting

June 22-23, 2022

2022 Combined Light Armor Survivability Panel (CLASP)

June 22-23, 2022

Want your event listed here?

Email contact@dsiac.org, to share your event.

-  Advanced Materials
-  Autonomous Systems
-  C4ISR
-  Directed Energy
-  Energetics
-  Military Sensing
-  Non-Lethal Weapons
-  RMQSI
-  Survivability & Vulnerability
-  Weapons Systems

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RECENT NEWS



U.S. Marine Corps

F-35C Brings Advanced Strike Capabilities to Jungle Warfare Exercise

RMQSI; Weapons Systems



DARPA

DARPA Seeks Ionospheric Insights to Improve Communication Across Domains

C4ISR; Directed Energy



U.S. Marine Corps

Network Modernization: The Shift in Warfare Paradigm and How Marine Corps Installations Are Supporting

Autonomous Systems; C4ISR



U.S. Marine Corps

ERDC Begins Testing With World's Largest Heavy Vehicle Simulator

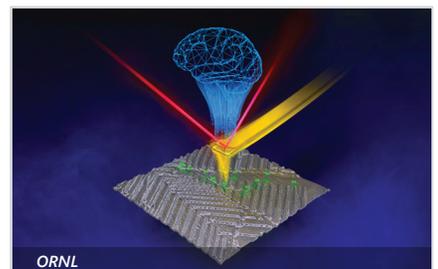
Autonomous Systems



U.S. Army

DEVCOM AvMC Instrumental in Development of the Army's Next Surface-to-Surface Missile

RMQSI; Weapons Systems



ORNL

Self-Driving Microscopes Discover Shortcuts to New Materials

Advanced Materials

