

The Latest From the Defense Systems Information Analysis Center // November 19, 2024



STATE-OF-THE-ART REPORT

DSIAC is pleased to announce publication of our latest state-of-the-art report (SOAR) "Attritable Unmanned Aircraft Systems: Conceptualization and Key Players."

In support of a U.S. Department of Defense priority for fielding attritable systems, this report provides the state of the art for attritable aircraft for multidomain operations.

Read the SOAR here: https://dsiac. dtic.mil/state-of-the-art-reports/ attritable-unmanned-aircraft-systems-conceptualization-and-key-players/.

DID YOU MISS OUR LAST WEBINAR?

"In-Space Developmental Test Persistent Platform at the U.S. Space Force"

▶ WATCH NOW!

or download the slides

NOTABLE TECHNICAL INQUIRY

What are the current DoD programs and projects on Al-enabled ground vehicles?

The Defense Systems Information Analysis Center was asked to identify programs performing research on artificial intelligence (AI)-enabled ground vehicles in the U.S. Department of Defense (DoD). Using AI-enabled ground vehicles, often referred to as unmanned ground vehicles (UGVs), allows increased adaptability on the battlefield by operating without a physical driver. Uses include scanning and identifying enemy threats, relaying... **READ MORE**

UPCOMING WEBINAR



Antenna Systems for Space Applications at the National...

December 11, 2024 12:00 PM – 1:00 PM

Host: DSIAC

Presenter(s): Paolo Focardi

Antenna developments for space applications have a long history at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory. Starting from the 1970s, Voyager; Galileo; Cassini; the Shutter Radar Topography mission; and, more recently, Aquarius, the Soil Moisture Active Passive mission, the Surface Water and Ocean Topography mission, the NASA-Indian Space Research Organisation Synthetic Aperture Radar... **READ MORE**



HIGHLIGHT

New Technique Enhances Absorptivity of Powders for Metal 3D Printing

In a significant advancement for metal additive manufacturing, researchers at Lawrence Livermore National Laboratory (LLNL) and their academic partners have developed a groundbreaking technique that enhances the optical absorptivity of metal powders used in 3D printing. **LEARN MORE**

EVENTS

Defense Manufacturing Conference 2024

December 2–5, 2024

Austin, TX

Space Resiliency Summit

December 4–5, 2024 National Harbor, MD

13th Annual SOF & Irregular Warfare Symposium

December 11–12, 2024 *Tampa, FL*

AOC 2024 International Symposium & Convention December 11–13, 2024

National Harbor, MD

AIAA SciTech Forum

January 6–10, 2025 Orlando, FL

2025 Future Indirect Fires Summit

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January 14–15, 2025 Austin, TX

Want your event listed here? Email contact@dsiac.org to share your event.



VOICE FROM THE COMMUNITY

Angel Acevedo

Project Support Manager for Project Director Sensors-Aerial Intelligence (PD SAI)

As the Project Support Manager for PD SAI, Angel Acevedo is responsible for a support strategy for all PD SAI Programs of Record. PD SAI is the Army's life-cycle manager for aerial sensor technologies and is currently shifting its portfolio from being platform-centric to sensor-centric. By pivoting to sensor-centric, the organization will continue to provide life-cycle sensor support regardless of the platform installed, reducing redundant costs and sensor support efforts across platforms.

ARE YOU A SME?

If you are a contributing member of the information systems community and are willing to help others with your expertise, you are a subject matter expert (SME).

Join our team today.

BECOME A SUBJECT MATTER EXPERT

ABOUT TECHNICAL INQUIRIES (TIs)

WHAT IS THE TI RESEARCH SERVICE?

- FREE service conducted by technical analysts
- · 4 hours of information research
- Response in 10 business days or less

WHO CAN SUBMIT A TI?

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- Contractors working on a government or military contract

WHY UTILIZE THE TI RESEARCH SERVICE?

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- Reduce redundancy of efforts across the government

To submit a TI, go to https://dsiac.dtic.mil/technical-inquiries

FOR MORE: FOLLOW US ON SOCIAL

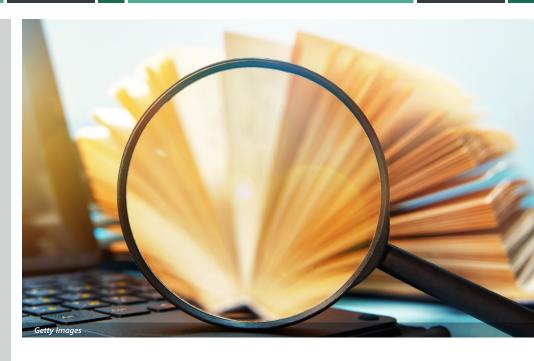












RECENT DSIAC TIS

- What are the threats and adversarial capabilities posed by Aided Target Recognition systems to the dismounted soldier?
- Which Global Positioning System-guided rockets or artillery rounds are used for all Service components and with unmanned systems?
- What efforts are currently being worked to develop opportunities for electronic attacks in contested environments?

RECENT CSIAC & HDIAC TIS

- What information is available on open-source modeling and simulation of assorted missile seekers (infrared, radio frequency, laser) that generically model their capabilities at high fidelity?
- How does the U.S. Department of Defense define "accredited" modeling and simulation software, specifically for tactical missile simulations?
- What commercial-off-the-shelf instruments are available for near real-time detection of chemical warfare agents?

FEATURED NEWS

Navy Demonstrates First At-Sea Reloading of Vertical Launching System

SAN DIEGO—The U.S. Navy achieved a breakthrough in combat readiness as it successfully demonstrated the Transferrable Reload At-Sea Method (TRAM) on an underway warship in the open ocean for the first time. **READ MORE**

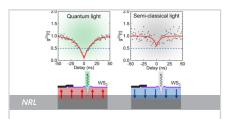
RECENT NEWS



Maintenance Alert: Portable Kit Analyzes Fluids to Gauge **Health of Military Vehicles**

Office of Naval Research





NRL Introduces a New Paradigm for Control of Quantum Emitters

U.S. Naval Research Laboratory







Navy Warfare Center Drives First Over-the-Horizon Install, Naval Strike Missile Launch...

U.S. Navy

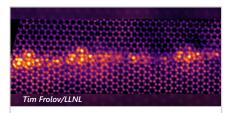




Study Asks: Can Cellphone **Signals Help Land a Plane?**

Sandia National Laboratories





When Iron Meets Titanium: Discovery of Quasicrystalline-Like Grain Boundary Phases...

Lawrence Livermore National Laboratory





PVI Trainer Enhances EW System Training for Mobility Aircrews

Georgia Tech Research Institute







Advanced Materials



Autonomous Systems



C4ISR



Directed Energy



Energetics



Military Sensing



Non-Lethal Weapons



RMQSI



Survivability & Vulnerability



Weapons Systems

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4695 Millennium Drive, Belcamp, MD 21017 443-360-4600 | contact@dsiac.org | dsiac.dtic.mil Unsubscribe | Past Digests







