DEFENSE
Systems Digest

LAST CALL FOR JOURNAL ARTICLES!

After a long absence, the DSIAC Journal is returning! We are now accepting abstracts for our first issue and need your help!

This issue will be a general edition covering any of DSIAC's ten focus areas.

WHAT TO INCLUDE IN ABSTRACT:

- 200 words
- Prospective title
- Your organization
- All authors
- Highlighted focus area(s)

ARTICLE DEADLINE:
October 2, 2023

SUBMIT IDEAS/ABSTRACT:
journal@dsiac.org

To view previous DSIAC journals, visit https://dsiac.org/journals.

DID YOU MISS OUR LAST WEBINAR?

"USAF Non-Lethal Weapons Program: A Primer for Defense Professionals and De-escalating Geopolitical Tensions..."

▶ **WATCH NOW!**

or download the slides

NOTABLE TECHNICAL INQUIRY

How can unmanned aircraft systems (UASs) detect and deny maritime domain awareness and counter-improvised explosive devices (C-IEDs)?

The Defense Systems Analysis Center (DSIAC) was asked to identify how UAS technologies are being used to detect, deny, and impact maritime domain awareness and IEDs. UASs have been recognized as a versatile platform that can pose threats in various domains to U.S. Department of... **READ MORE**

UPCOMING WEBINAR

U.S. Navy

Integration of Shipborne Additively Manufacturing Systems Onto Naval Vessels...

September 20, 2023
12:00 PM – 1:00 PM

Presenter: Matt Seidel   *Host:* DSIAC

In 2022, the U.S. Navy installed the first-ever, permanent metal additive manufacturing (AM) machine aboard its vessel. This technology is projected to be groundbreaking, reducing resupply logistics and diminishing obsolescence. It will provide sailors with industrial-level manufacturing capabilities... **READ MORE**

FUTURE WEBINARS

Emerging Applications of Machine Learning and Predictive Analytics...

October 4, 2023
12:00 PM – 1:00 PM

DMSMS and Additive Manufacturing

November 8, 2023
12:00 PM – 1:00 PM

AFWERX

HIGHLIGHT

New Platform IGNITEs Defense Innovation

Wright-Patterson Air Force Base, OH (Air Force Research Laboratory) – AFWERX has launched IGNITE, a platform where defense users can search for and easily interact with thousands of small businesses that have secured previous Department of the Air Force Small Business Innovation Research or Small Business Technology Transfer awards. This controlled line of communication between technology developers and end users will strengthen the integration and adoption of these technologies, resulting in increased collaboration between government and industry. **LEARN MORE**

EVENTS

FY23 JAS Program Review (JPR)
September 19–21, 2023
San Diego, CA

Fuze/FFC/Demil Conference & Exhibition
September 25–28, 2023
Huntsville, AL

Hypersonic Technology & Systems Conference (HTSC)
October 16–19, 2023
North Logan, UT

Fundamentals of Random Vibration and Shock Testing Training (NTS Silicon Valley, CA)
November 7–9, 2023
NTS Silicon Valley, CA

Military Standard 810 (MIL-STD-810) Test Training (NTS Huntsville, AL)
December 4–7, 2023
NTS Huntsville, AL

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

VOICE FROM THE COMMUNITY

Peter Rivera-Casillas
Research Mechanical Engineer, U.S. Army Engineer Research & Development Center (EDRC), Information Technology Laboratory Computational Analysis Branch

Peter Rivera-Casillas is actively engaged in different areas of machine learning, such as computer vision, physics-informed machine learning, or a combination of both. While he is primarily focused on solving complex hydrologic problems, he and his team have also successfully applied these methodologies across a broad range of engineering applications. At ERDC, high-performance computing is leveraged to develop state-of-the-art solutions in both military and civilian sectors by harnessing the transformative power of artificial intelligence.

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
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WHO CAN SUBMIT A TI?

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- Military personnel
- Contractors working on a government or military contract

WHY UTILIZE THE TI RESEARCH SERVICE?

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

FOR MORE: FOLLOW US ON SOCIAL!

U.S. Army

RECENT DSIAC TIs

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

- What are the current and proposed DoD amphibious aircrafts in production?

- What DoD research has been done to detect and classify buried objects like land mines using IR sensors in drones or other flying platforms?

RECENT CSIAC & HDIAC TIs

- What software systems can be used to test the ARTS SW C2 application with an X-band radar to replicate threats and facilitate Officer Aptitude Rating tests? Can you provide an assessment for each?

- Is there a spray/liquid/foam/aerosol to identify the presence of biological warfare agents via colorimetric change?

- What Class A or B respiratory personal protective equipment can be used to protect against base gasses for emergency management or U.S. Department of Defense personnel?

FEATURED NEWS

Force Design 2030: Acquisition for the Future Battlefield

The 2018 National Defense Strategy warns that U.S. adversaries are actively challenging the long-standing rules-based international order, thus "creating a security environment more complex and volatile than any... **READ MORE**

RECENT NEWS

Defense Logistics Agency

DLA Warehouse Management System Deploys in Bahrain

Defense Logistics Agency

U.S. Army

Cavalry Troopers Test New Javelin Missile System

U.S. Army

ERDC

Ground Vehicle Interface Opens High-Performance Computing Doors for a New Set of Users

Engineer Research and Development Center
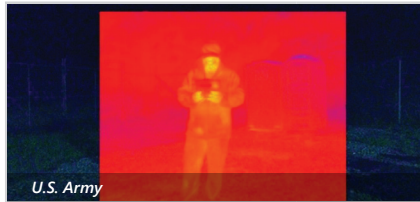
U.S. Army

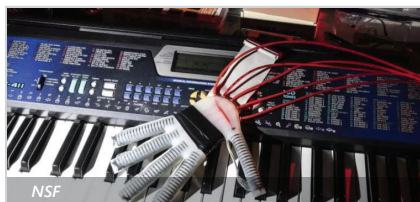### The Synthetic Training Environment: Forging the New Frontier

U.S. Army
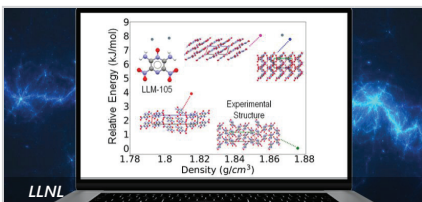
LLNL

New Research Shows Successful Ab Initio Crystal Structure Prediction of Energetic Materials

Lawrence Livermore National Laboratory

NSF

Robotic Glove That "Feels" Lends a Hand to Relearn Playing Piano After a Stroke

National Science Foundation

Advanced Materials

Autonomous Systems

C4ISR

Directed Energy

Energetics

Military Sensing

Non-Lethal Weapons

RMQSI

Survivability & Vulnerability

Weapons Systems

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