

# DEFENSE

## Systems Digest

The Latest From the Defense Systems Information Analysis Center // October 26, 2021



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AFWERX Success Stories

## NOTABLE TECHNICAL INQUIRY

### Who makes hardware and software solutions for high-voltage lithium-ion (Li-ion) battery systems?

The Defense Systems Information Analysis Center (DSIAC) received a technical inquiry requesting information on commercial hardware or software applications that detect, manage, and control abnormal and/or dangerous high-voltage, lithium-ion battery conditions. The purpose of the inquiry was to determine battery management solutions for military environments. DSIAC staff and academic subject matter experts with experience working on advanced battery development programs performed open-source research of high-voltage, lithium-ion battery manufacturers... [READ MORE](#)



## SNEAK PEEK

### UPCOMING WEBINAR:

*Who Is Leading in AI/ML? An Unbiased Look at the Global AI/ML Landscape*

### DATE:

November 10, 2021

### TIME:

12:00 PM - 12:45 PM

### PRESENTED BY:

Dr. Jason Augustyn

### HOST:

DSIAC



## VOICE FROM THE COMMUNITY

### Dr. George F. Stone

Director, C5ISR Interoperability and Modeling Solutions

Dr. George F. Stone has 35+ years of experience in defense modeling, simulation, training, and analysis. While in the U.S. Army, he was a director, assistant professor, program manager, technical director, and software team lead for major military acquisition simulations programs, such as JSIMS, JWARS, and WARSIM, and organizations, including Army G-3/5/7 AMSO, OSD, NATO, and USMA. At QinetiQ, he currently manages programs in 3-D terrain visualization, virtual and augmented reality, and C2 integration tools for synthetic training and operational environments.

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## HIGHLIGHT

### AI and Autonomy in Russia, Issue 23, October 8, 2021

This report, the 23rd in a series of biweekly updates, is part of an effort by CNA to provide timely, accurate, and relevant information and analysis of civilian and military artificial intelligence (AI) in Russia and, in particular, how Russia is applying AI to its military capabilities. It relies on Russian language, open-source material. [LEARN MORE](#)

## FEATURED NEWS

### General Says Artificial Intelligence (AI) Will Play Important Role in Network Defense

Attacks by hostile governments and criminal networks on civilian and Defense Department cyberspace assets are constant threats. As artificial intelligence grows in cyberspace and as it matures to enterprise-scale, it too will become a target, said the Director of the Joint Artificial Intelligence Center.



The first aspect of cyber defense of AI starts with the networks, Marine Corps Lt. Gen. Michael S. Groen said today during a virtual fireside chat at the Billington Cybersecurity Summit. [READ MORE](#)

*Image: U.S. Marine Corps*



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## WEBINARS

### Who Is Leading in AI/ML? An Unbiased Look at the Global AI/ML Landscape

*Presented:* November 10, 2021 12:00 PM - 12:45 PM  
*Presenter:* Dr. Jason Augustyn  
*Host:* DSIAC

Development of artificial intelligence/machine learning (AI/ML) capabilities is unquestionably on the rise, as the United States and other nations seek to increase their military strength. Less clear is the ranking of those nations – who is leading the way in AI/ML? How does U.S. AI/ML research and development compare to other nations, such as China?

This webinar presentation will summarize a recent global AI/ML landscape report to provide the audience a nuanced analysis of who’s leading in the AI/ML landscape, including top researchers, key research hubs, and patterns of collaboration among nations. **LEARN MORE**



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### An Overview of the Effectiveness ToolBox (ETB)

December 8, 2021  
 12:00-12:45 PM

## EVENTS

### Fundamentals of Random Vibration and Shock Testing (San Diego, CA)

November 9-11, 2021

### Space Resiliency Summit

December 1-2, 2021

### Joint Army-Navy-NASA-Air Force (JANNAF) December Subcommittee Meetings

December 6-16, 2021

### Defense Manufacturing Conference (DMC)

December 13-16, 2021

### The 68th Annual Reliability and Maintainability Symposium

January 24-27, 2022

### 2022 Personnel Recovery (PR) Modernization

February 7-11, 2022

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## RECENT NEWS



U.S. Marine Corps

**New Annual Rifle Qual: A Shooter's Perspective**

Weapons Systems



U.S. Department of Defense

**U.S. Military's "Active Denial System" Is a 95-GHz Heat Ray**

Advanced Materials



U.S. Army

**Army Delivers First Hypersonics Ground Equipment**

Autonomous Systems



Ames Laboratory

**One Scientist's Trash Is Another's Treasure: A Laboratory's "Irritating" Byproduct Now Supplies 2-D Materials Research**

Advanced Materials



U.S. Air Force

**Secretary of the Air Force Calls for "Technically and Operationally Innovative Approaches" to Meet Logistics Challenges**

RMQSI



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**Rapid Pulse Laser Weapons Could Be the Pentagon's Future Edge**

Directed Energy