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The Latest From the Cybersecurity & Information Systems Information Analysis Center // August 6, 2024

#### CALL FOR JOURNAL ABSTRACTS

We are accepting abstracts for the upcoming CSIAC Journal, Vol. 9, No. 2. This journal features exclusive, publicly releasable articles on new and emerging science, engineering, and technology within the cybersecurity community. The deadline for abstract submissions is October 25, 2024. Contributors will be notified if their submission is selected for publication by November 8, 2024. Selected articles will be due January 31, 2025, to ensure a May 2025 publication date.

#### WHAT TO INCLUDE IN ABSTRACT:

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

#### Your organization

#### SUBMIT IDEAS/ABSTRACT:

https://csiac.org/publish/ or email Aaron at journal@csiac.org

#### DID YOU MISS OUR LAST WEBINAR?

"Improving Security, Privacy, and Authentication With a Quantum-..."



or download the slides

# **NOTABLE TECHNICAL INQUIRY**

# What major advancements are proposed by 6G, and when is it projected to deploy?

The Cybersecurity and Information Systems Information Analysis Center (CSIAC) was tasked with researching and recognizing improvements to 6G networks compared to 5G. The inquirer also wanted to know when 6G networks are expected to be deployed. CSIAC identified the differences in... **READ MORE** 

## **UPCOMING WEBINAR**



Research Challenges for Large Pretrained Models

> August 14, 2024 12:00 PM – 1:00 PM

Presenter(s): Dr. Celso M. De Melo

Host: CSIAC

This webinar will highlight research challenges cutting across U.S. Army, Navy, and Air Force use cases for large pretrained models to include research on the following:

- multimodal models
- knowledge distillation for deployment at the edge... READ MORE

#### **FUTURE WEBINARS**

Do I Need Cybersecurity Maturity Model Certification...

> September 4, 2024 12:00 PM – 1:00 PM

## **CYBERSECURITY** & Information Systems Digest

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## HIGHLIGHT

# CSIAC State-of-the-Art Report: Extended Reality for Maintenance and Repair Training

Extended reality (XR) is an all-encompassing term that groups three similar technologies: (1) virtual reality (VR), (2) augmented reality (AR), and (3) mixed reality (MR). While XR is a field that has been in development in the U.S. Department of Defense (DoD) since the late 1960s, it has... **LEARN MORE** 

### **EVENTS**

Black Hat USA 2024 August 3–8, 2024 Las Vegas, NV

**The Cyber-Physical Sensing Working Group** August 7–8, 2024 *Ithaca, NY* 

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**14th Annual Peak Cyber Symposium** September 10–12, 2024 *Colorado Springs, CO*  Al4SE & SE4Al Workshop 2024 September 17–18, 2024 Arlington, VA

28th Annual IEEE High Performance Extreme Computing Virtual Conference September 23–27, 2024 Virtual

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

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#### VOICE FROM THE COMMUNITY

Kevin Roe High-Performance Computing Subject Matter Expert

Kevin Roe is part of the Maui High-Performance Computing Center, which is one of the five centers of the High-Performance Computing Modernization Program. Its goal is to provide DoD personnel with the computational resources necessary to develop solutions to technical challenges. The Center offers supercomputing capabilities, high-speed networking, and service support that enables testing and modeling of defense systems that could not be otherwise modelled in the real world due to time, financial, physical, or safety constraints.

#### **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

## **CYBERSECURITY** & Information Systems Digest

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### 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?

- U.S. government (federal, state, or local)
- Military personnel
- Contractors working on a government or military contract

# WHY UTILIZE THE TI RESEARCH SERVICE?

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- Discover hard-to-find information
- Find and connect with other subject matter experts in the field
- Reduce redundancy of efforts across the government

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

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## **RECENT CSIAC TIs**

- What open standards apply to zero trust implementation?
- What are the use cases of intent-based networking in U.S. Department of Defense tactical networks?
- How are cybertools and cybertechnologies used in differentiating between automated reconnaissance and enumeration events and hands-on-keyboard events?

### **RECENT DSIAC & HDIAC TIs**

- What information exists on aerial-based datasets of maritime vessels for training deep-learning artificial intelligence models to perform various tasks?
- What literature exists on using laser illumination with high-speed imaging?
- What are current and projected applications of synthetic biology for U.S. Army protection, detection, and decontamination against chemical, biological, and radiological threats?

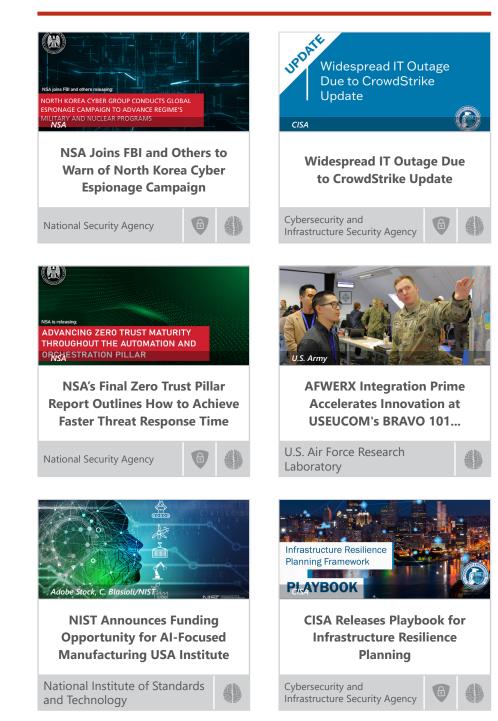
### **FEATURED NEWS**

#### **DoD Releases Strategy to Achieve IT Integration, Interoperability**

The Pentagon released its strategy to drive interoperability and integration in information technology across the Defense Department.

The new blueprint titled "Fulcrum: DoD Information Technology Advancement Strategy" emphasizes an approach that ensures... **READ MORE** 

### **RECENT NEWS**





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