

# CYBERSECURITY & Information Systems Digest

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 area(s)
- Your organization

### SUBMIT IDEAS/ABSTRACT:

<https://csiac.org/publish/> or email Aaron at [journal@csiac.org](mailto:journal@csiac.org)

## DID YOU MISS OUR LAST WEBINAR?

“Improving Security, Privacy, and Authentication With a Quantum-...”

 WATCH NOW!

[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



U.S. Army photo by Sgt. Thiem Huynh

## 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

**14th Annual Peak Cyber Symposium**  
September 10–12, 2024  
Colorado Springs, CO

**AI4SE & SE4AI 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](mailto:contact@csiac.org) to share your event.



## 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**

## ABOUT TECHNICAL INQUIRIES (TIs)

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### 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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- 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

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- 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

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- 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



NSA joins FBI and others releasing:  
**NORTH KOREA CYBER GROUP CONDUCTS GLOBAL ESPIONAGE CAMPAIGN TO ADVANCE REGIME'S MILITARY AND NUCLEAR PROGRAMS**  
NSA

### NSA Joins FBI and Others to Warn of North Korea Cyber Espionage Campaign

National Security Agency

 



**UPDATE**  
Widespread IT Outage Due to CrowdStrike Update  
CISA

### Widespread IT Outage Due to CrowdStrike Update

Cybersecurity and Infrastructure Security Agency

 



NSA is releasing:  
**ADVANCING ZERO TRUST MATURITY THROUGHOUT THE AUTOMATION AND ORCHESTRATION PILLAR**  
NSA

### NSA's Final Zero Trust Pillar Report Outlines How to Achieve Faster Threat Response Time

National Security Agency

 



U.S. Army

### AFWERX Integration Prime Accelerates Innovation at USEUCOM's BRAVO 101...

U.S. Air Force Research Laboratory





Adobe Stock, C. Blasoli/NIST

### NIST Announces Funding Opportunity for AI-Focused Manufacturing USA Institute

National Institute of Standards and Technology





Infrastructure Resilience Planning Framework  
**PLAYBOOK**  
CISA

### CISA Releases Playbook for Infrastructure Resilience Planning

Cybersecurity and Infrastructure Security Agency

 

-  Cybersecurity
-  Knowledge Management & Information Sharing
-  Modeling & Simulation
-  Software Data & Analysis

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