

# HOMELAND

## Defense & Security Digest

The Latest From the Homeland Defense & Security Information Analysis Center // November 30, 2021



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## NOTABLE TECHNICAL INQUIRY

**Given a set of operational energy requirements, what emerging technologies are capable of assisting in meeting the requirements?**

Energy security and forward-operating base (FOB) self-sufficiency are not solely logistics issues; they also affect the safety of the Warfighter. Self-sufficient FOBs require fewer resupply convoys, which are vulnerable to insurgent attacks and put Warfighters in harm's way [1]. To mitigate these dangers, the U.S. Department of Defense's (DoD's) 2025 energy security goals include reducing energy consumption at military installations while also increasing on-site energy generation and utilizing alternative... [READ MORE](#)



## SNEAK PEEK

### UPCOMING WEBINAR:

*Exploring Biometric Validation Approaches in the Age of COVID-19*

### DATE:

December 15, 2021

### TIME:

12:00 PM

### PRESENTED BY:

Dr. Abdul Rahman

### HOST:

HDIAC



## VOICE FROM THE COMMUNITY

### Jeremy Prout

*Security Director, Americas, International SOS*

As Security Director, Americas for International SOS, Jeremy is responsible for providing security assistance and support for organizations throughout the globe. He has an extensive background in crisis management and overseas security operations and has supported International SOS clients through a number of crises, including leading evacuation and assistance efforts for natural disasters, throughout the Americas regions. Prior to joining International SOS, Jeremy served as a security manager for several premier organizations. He served 6 years as a Marine Corps Officer, specializing in overseas security, training, and risk management.

**BECOME A SUBJECT MATTER EXPERT**



U.S. Army

## HIGHLIGHT

### Official Says DoD, With Help From Partners, on Cusp of Cutting-Edge Innovations

Heidi Shyu provided keynote remarks today at the virtual Carnegie Mellon University Software Engineering Institute’s Research Review 2021.

“The challenges facing our military are both diverse and complex, ranging from sophisticated cyberattacks to supply chain risks, to defense against hypersonic missiles, to responding to biothreats. To address these challenges, the department must harness the incredible innovation ecosystem, both domestically and globally, in order to stay ahead of our adversaries,” Shyu said. [LEARN MORE](#)

## FEATURED NEWS

### Shaping Coast Guard Culture to Enhance the Future Workforce

To cultivate an effective future workforce, the U.S. Coast Guard is purposefully considering ways to reshape its organizational culture. The service wants its 2030 workforce to have greater technological fluency, human-centric skills, and the ability to develop new skills and capabilities within the force. The Coast Guard’s



organizational culture—the behavioral norms and shared values consistently exhibited by its personnel—will play a critical role in creating an environment in which the workforce can put those skills into... [READ MORE](#)

Image: U.S. Coast Guard



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## WEBINARS

### Exploring Biometric Validation Approaches in the Age of COVID-19

*Presented:* December 15, 2021 12:00 PM–1:00 PM

*Presenter:* Dr. Abdul Rahman

*Host:* HDIAC

Biometrics can provide strong validation of persona under ideal circumstances and conditions. During COVID-19, a domestic mask mandate rendered biometric techniques like facial recognition somewhat challenged. As a result, additional complementary methods are required to support confirmation of identity. In this talk, we will discuss current biometric approaches, the impacts due to the pandemic, and how additional techniques like fusion of other data sets using artificial intelligence and machine learning can provide alternative methods for maintaining high integrity identifications. [LEARN MORE](#)



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### A Systems Thinking Perspective on Vietnam's Response to COVID-19

January 13, 2022  
12:00-12:45 PM

## EVENTS

### 2021 American Nuclear Society (ANS) Winter Meeting and Technology Expo

November 30-December 4, 2021

### From ADAS to Automated Driving Digital Summit

December 7-8, 2021

### Intersolar North America and Energy Storage North America

January 13-15, 2022

### Nuclear Deterrence Summit

February 7-9, 2022

### International Conference on Biometric Engineering and Applications (ICBEA044 2022: 16)

April 21-22, 2022

### 11th Symposium on CBRNE Threats

June 5-8, 2022

### Want your event listed here?

Email [contact@hdiac.org](mailto:contact@hdiac.org), to share your event.

-  Alternative Energy
-  Biometrics
-  CBRN Defense
-  Critical Infrastructure Protection
-  Cultural Studies
-  Homeland Defense & Security
-  Medical
-  Weapons of Mass Destruction

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## RECENT NEWS



*U.S. Department of Energy*

**DOE Helps Launch H2 Twin Cities to Accelerate Global Hydrogen Deployment**


Alternative Energy 



*U.S. Army*


**New Transition-Focused Army Team Releases Contract Opportunities for Small Businesses**


Biometrics 



*USINDOPACOM*


**Spartan Paratroopers Harness Biometric Technology**


Biometrics 



*U.S. Army*



**Soldiers, Airmen, Marines Test New Chemical Agent Detection Systems at Fort Hood**


CBRN Defense 



*U.S. Air Force*

**DHS S&T Awards \$2.6M to Detect Vehicle-Borne Explosives**

Homeland Defense & Security; WMD  



*U.S. Army*

**Explosive Ordnance Disposal Soldiers Field Test Next-Generation Advanced Bomb Suit**

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