

Defense Systems

DIGEST

16 JUNE 2020 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



NOTABLE TECHNICAL INQUIRY

What sustainment and logistics planning and analysis tools are currently in use at the division or higher echelons?

DSIAC was tasked with searching for sustainment and logistics planning and analysis tools that are in use, with a focus on those utilized in joint efforts. DSIAC performed literature searches in open sources and the DTIC Research and Engineering (R&E) Gateway for relevant tools and information. Subject matter experts and logistics planners were contacted for information... [Read More](#)

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FEATURED NEWS

Pentagon Reshuffles R&D Priorities

HONOLULU, Hawaii — The Defense Department is shaking up its list of research-and-development priorities as the Pentagon builds new roadmaps for pursuing future capabilities.

When Undersecretary of Defense for Research and Engineering Mike Griffin first came into office in 2017, hypersonic weapons were his top focus area. But not anymore.

“We’ve made a lot of progress in hypersonics,” said Mark Lewis, Director of Defense Research and Engineering for Modernization. “We love them all the same, but our No. 1 priority, frankly, right now is microelectronics.”



VOICE FROM THE COMMUNITY



Paul Barr, Vulnerability Analyst, Northrop Grumman Aeronautics Systems

As a vulnerability analyst for almost 30 years, I conduct ballistic vulnerability, live-fire test and evaluation, and vulnerability technology reduction development efforts on a variety of military and commercial variant platforms (e.g., the C-17 and KC-46) for threats ranging from small arms to surface-to-air missiles. I enjoy the art of converting vulnerability requirements to analytic and hardware solutions. It is a privilege to mentor the next generation of vulnerability engineers, inspiring them as they use their skills to forward vulnerability engineering processes and solutions.

► Apply to be part of our network of over 1,000 subject matter experts.

UPCOMING POSTPONED EVENTS

2020 AIAA Aviation and Aeronautics Forum and Exposition

15 June 2020 to 19 June 2020

49th Power Sources Conference

15 June 2020 to 18 June 2020

“Introduction to Brawler” 2020 Training Course

16 June 2020 to 21 June 2020

2020 IEEE Intelligent Vehicles Symposium

22 June 2020 to 25 June 2020

► Want your event listed here? Let us know!

HIGHLIGHT

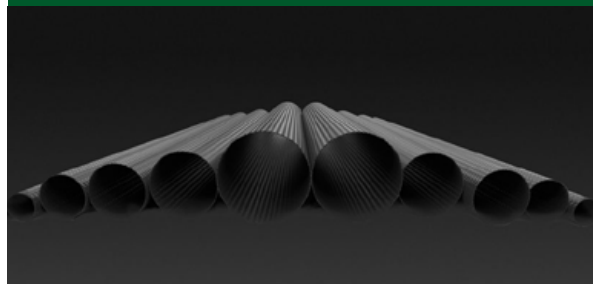


2020 STRIKE CHALLENGE
Virginia International Raceway | August 31-September 4
Vendors Report August 30

2020 Strike Challenge Mobility Demonstration

For 2020, Strike Challenge affords U.S. industry the opportunity to present current and evolving domestic operations (DOMOPS) capability and specialized response equipment/systems. The event encompasses tactile interactive demonstration of equipment specifically... [Read More](#)

DSIAC JOURNAL SPRING 2020



Composite Overwrapped Pipe Burst Test

Also in This Issue:

- Inorganic Optical Components Using Additive Manufacturing
- Can Compressive Sensing Solve Your Sensor and Measurement Problems?
- Additive Manufacturing High-Performance Polymers for Space and Aerospace
- The Importance of Early Prototyping in Defense Research, Engineering, Acquisition, and Sustainment
- A Computational Approach to Understanding Advanced Thermal Barrier Coatings' Performance



► Have an idea for a topic? Please contact us to write an article!

RECENT NEWS



Super Material Provides Surprising Test Results in New Study



Small Robotic Mule, Other Unmanned Ground Systems on the Horizon



New Soliton Laser Pulses Deliver High Energy in a Trillionth of a Second



SpaceX's Next Starlink Launch Will Boost Three Hitchhiking Satellites to Orbit



USS Nimitz Aircraft Carrier Deploys With Powerful New Infrared Sensor System



What Is LRAD? The "Sound Cannon" Used by Police Explained



Ensuring the Reliability of Munitions



New Cloaking Material Could Protect Buildings, Soldiers



Army Begins Testing Advanced Seeker for Precision Strike Missile



Webinar: GNSS Spoof Detection and Mitigation

Wednesday 24 June 2020, 12:00 p.m. to 12:45 p.m. EST

Global Navigation Satellite System (GNSS) vulnerability is an issue of increasing interest given the importance of GNSS to critical infrastructure worldwide. While the traditional concern has been on denial of service, particularly via jamming, the threat of fallacious position, navigation, or time (termed spoofing) also deserves consideration. Spoofing has been seen around the world and can now be accomplished without significant resources and know-how. It can have deleterious effects due to life safety and automated systems, such as aviation, depending on GNSS. We have been working with the Federal Aviation Administration on developing practical means of detecting spoofing suitable for aviation and other highly-automated systems. This talk will describe our research in this area. While there are no cure-alls, a good combination of these practical detection technologies can make it very challenging and expensive for an attacker to overcome.

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