

Defense Systems

DIGEST

19 JUNE 2018 – THE LATEST FROM DEFENSE SYSTEMS INFORMATION ANALYSIS CENTER



NOTABLE TECHNICAL INQUIRY

What simulation/analysis tools are currently being utilized or developed by U.S. Department of Defense (DoD) for mission and campaign level combat analysis? Do any of these tools currently handle ground and air assets (rotorcraft)?

DSIAC staff worked in conjunction with modeling and simulation (M&S) subject matter experts (SMEs) embedded in the U.S. Department of Defense (DoD) to... [Read More](#)

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FEATURED NEWS



A New Blueprint for Competing Below the Threshold: The Joint Concept for Integrated Campaigning

In *The Weary Titan*, Aaron Friedberg paints a picture of a global power that cannot bring itself to adapt to changing times. Comfortable atop the world order, Britain saw the tempest brewing on the horizon, but proved unable to sufficiently adjust to challenges posed by rising powers. Rather than changing, it remained steadfastly focused on a formulaic understanding of means. Decline was indeed a choice; it was not foreordained. The U.S. military is at a similar strategic crossroads where its power is unmatched and its military the only one with truly global reach. But its global operations and presence... [Read More](#)

MODEL OF THE MONTH

IVIEW 2000 – IVIEW 2000 is a post-processing graphical presentation package, for various computer simulations modeling multiple object engagements and is used to view player activity in a real-time movie-like 3-D display.

[Get this model!](#)



VOICE FROM THE COMMUNITY



Barbara Grant, *President, Grant Drone Solutions, LLC, and Distinguished Instructor, University of California Irvine Optical Engineering Certificate Program*

I am an electro-optical engineer and imagery analyst in optical sciences from the University of Arizona. My company, Grant Drone Solutions, LLC, provides analysis, training, and media content to military and commercial clients. Imagery analysis, in particular, is a passion of mine, and I strive to do it right, applying real data rather than theoretical models where it counts. I have been teaching professionals since 2009 and I'm a Distinguished Instructor in UC Irvine's Optical Engineering Certificate Program. I'm currently writing my fourth book related to radiometry and optics, which will cover imagery analysis in a domestic security context.

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

UPCOMING EVENTS

SOFCON: SOF CEMA

16 July 2018 to 20 July 2018

DARPA First Annual Electronics Resurgence Initiative Summit

23 July 2018 to 25 July 2018

Special Operations Nexus

30 July 2018 to 1 August 2018

Army Science & Technology Symposium & Showcase

21 August 2018 to 23 August 2018

► Want your event listed here? Let us know!

BULLETIN BOARD

Now Available – the Latest Release of the Enhanced Surface-to-Air Missile Simulation (ESAMS) Model, Version 5.4

Air Force Academy CyberWorx – Discover, Define, Ideate, Prototype & Test, Implement & Measure

Registration for Advanced Technology Electronic Defense Systems (ATEDS) 2018 is Now Open!

Looking for News on 'Information Operations (IO)'?

► Add your item to our board by contacting us.

DSIAC JOURNAL SPRING 2018



Cyber-Physical Command-Guided Swarm

Also in this issue:

- How the Military UAV Community Can Learn from the Commercial Drone World (and Vice Versa)
- Power Generation and Storage for Directed Energy Systems
- ACES: Developments in Corrosion Prediction, Testing, and Validation

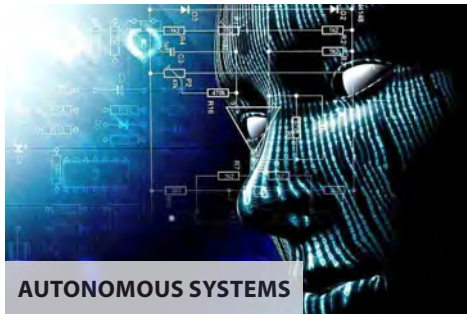


► Have an idea for a topic? Please contact us to write an article!

RECENT NEWS



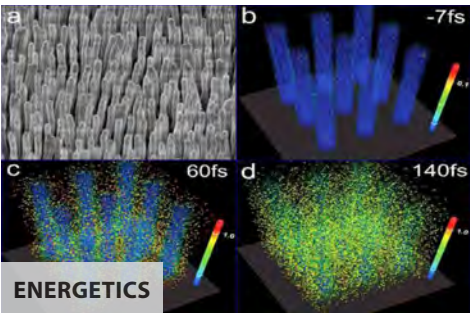
Silk Fibers Could Be High-Tech 'Natural Metamaterials'



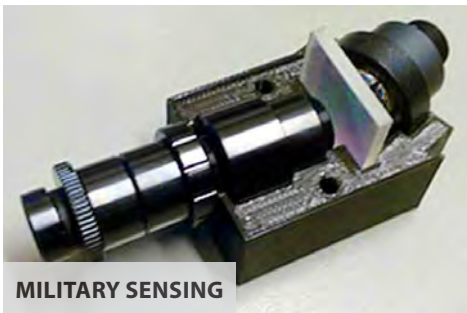
Startup Makes Artificial Intelligence & Machine Learning Breakthroughs in Object Recognition, Imagery Analytics



Russia Reportedly Tests Prohibited Blinding Laser Weaponry in Donbas



Laser-Heated Nanowires Produce Micro-Scale Nuclear Fusion With Record Efficiency



Low-Cost Lightweight Hyperspectral Imagers Bring Sophisticated Imaging Capability to Drones



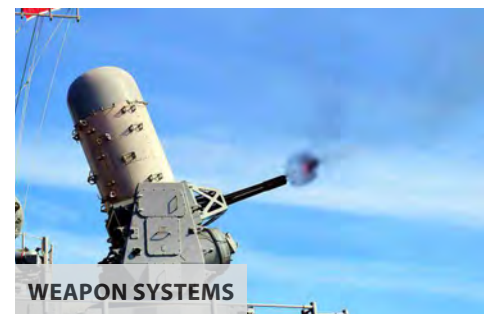
NDAAs Pushes U.S. Cyber Command to be More Aggressive



Army Takes on Wicked Problems With the Internet of Battlefield Things



Enhancing the Army's Network to "Fight Tonight"



Up Close and Personal

NEWLY AVAILABLE STI

Documents only available through DTIC to registered users.

Implementing Set-based Design in Support of Department of Defense Acquisition: A Primer on the Philosophy and Application of Set-based Design

Distro. A

Residual Stress Detection by Measurement of Efficiency of Electromagnetic Generation of Ultrasound

Distro. A

Semi-automatic System for Ultrasonic Measurement of Texture

Distro. A

Sublimation Inside an Elastoplastic Material

Distro. A

Ultrasonic Characterization of Texture

Distro. A

Use of Polymer Rapid Tools as Functional Injection Mold Tooling

Distro. A

Ultrasonic Propagation and Scattering in Pearlitic Steel

Distro. A

Coil Optimization for Electromagnetic Levitation Using a Genetic Like Algorithm

Distro. A

Processing, Structure, and Properties of Nanoparticle Reinforced Nonwoven Sandwich Composites

Distro. A

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Defense Systems Information Analysis Center

4695 Millennium Drive, Belcamp, MD 21017

Phone: 443-360-4600

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