EDITOR’S PERSPECTIVE

Fall travel, trade shows, diversity

JOHN MCHALE, EDITORIAL DIRECTOR

Each year, my autumn is marked by the sight of falling leaves, quiet drives through Pennsylvania farmland visiting defense suppliers, and far-from-solitary walks through the Washington, D.C, convention center. I say ? far from solitary? as I?m accompanied by the thousands that attend the October defense-industry shows in the nation?s capital. Thankfully, the quiet countryside drive follows the walk through the booths ? a nice respite from the buzzing show floors.

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INDUSTRY SPOTLIGHT

Making CMOSS deployable: The rubber hits the road

DAVID JEDYNAK CURTISS-WRIGHT DEFENSE SOLUTIONS

The C4ISR/EW [electronic warfare] Modular Open Suite of Standards (CMOSS) is defined by the Combat Capabilities Development Command C5ISR (Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance, and Reconnaissance) Center. The suite of open architecture industry and U.S. Army standards included in CMOSS enables the reduction of C4ISR system size, weight, and power (SWaP) and facilitates commonality across multiple platforms by enabling the sharing of hardware and software components.
A simple but essential truth about military intelligence, surveillance, and reconnaissance (ISR) applications is that the sensor bandwidth and compute power needed to support them continuously increases. Today, for example, the Sensor Open System Architecture (SOSA) consortium is driving industry for data recorders that can support 100 Gb Ethernet with encryption to support the U.S. Department of Defense (DoD) ISR roadmap.
Institute (WPI ? Worcester, Massachusetts) researcher may lead to bulletproof vests and helmets that can sense the speed, angle of approach, and size of an incoming bullet ? allowing the granular materials inside the protective gear to morph their properties to provide greater shock protection at the precise point of impact.

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SPECIAL REPORT
Augmented-reality technologies are here: Defense organizations must acknowledge the security concerns
DUNCAN MCSPORRAN, KOGNITIV SPARK

Augmented-reality (AR) and mixed-reality (MR) technologies present unique opportunities in the defense and aerospace world but at the same time can introduce security risks. AR/MR solutions enable soldiers, technicians, subject matter experts, military strategists, and the like to overlay visual representations ? commonly referred to as holograms or heads-up displays ? of data, systems, machines, and other information into their real-world space.

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GUEST BLOG
What is a tensor and why should I

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Over time, the definition of a tensor has varied across communities from mathematics to quantum physics. Lately, it has joined the machine learning community’s lexicon. If you search the web for the definition of a tensor, you will likely be overwhelmed by the varying explanations and heated discussions. In 1900, Gregorio Ricci Curbastro and his student Tullio Levi-Civita first published their theory of tensor calculus, which is also known as absolute differential calculus.

GUEST BLOG

From gaming to the battlefield: the benefits of virtual reality in military training

HARRY BUHL, RAYTHEON

Today’s technology allows gamers to wage battles against players around the world through immersive, cross-platform play. Beyond entertainment, this type of cross-platform, virtual technology could revolutionize the way the U.S. Army trains.

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Choosing the Best Location for Your Data-At-Rest Encryption Technology
CURTISS-WRIGHT

This paper discusses the different places the encryption technology can be located on a data storage solution and aims to help you choose a solution that is best for your application.

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