



## OCTOBER 2021

Military AI brought to you by the editors of [Militaryembedded.com](https://militaryembedded.com) focuses on artificial intelligence technology in the defense and aerospace domain, bringing readers coverage on machine learning, neural networks, and deep learning techniques leveraged in military and aerospace applications.



### Data management solution to be delivered to the Royal Navy

EMMA HELFRICH, TECHNOLOGY EDITOR

The Ministry of Defense (MoD) has awarded a five year contract to BAE Systems to provide a data management system to multiple ships in the Royal Navy fleet including the Queen Elizabeth Class aircraft carriers, Type 45 destroyers, and the new Type 26 frigates.

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### AI-powered engine used in Army operation with Ministry of Defense

EMMA HELFRICH, TECHNOLOGY EDITOR

Officials from the Ministry of Defense (MoD) announced that soldiers from the 20th Armored Infantry Brigade used an artificial intelligence (AI) engine designed to provide information on the surrounding environment and terrain during a recent exercise.

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### AI-powered rugged target recognition demoed by Systemon for U.S. Army

EMMA HELFRICH, TECHNOLOGY EDITOR

Systemon, Inc., company specializing in rugged computer hardware solutions, demonstrated Aided Target Recognition (AiTR) artificial intelligence (AI) capabilities with multiple rugged embedded computer solutions, including Raven-Strike and Kite-Strike, to the U.S. Army at a recent Project Convergence 21 (PC21) event.

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## Machine learning-powered missile warning system in development for U.S. Army

EMMA HELFRICH, TECHNOLOGY EDITOR

BAE Systems has received a \$62 million contract from the U.S. Army to deliver the next-generation 2-Color Advanced Warning System (2CAWS). The system is designed to provide aircrews with advanced threat detection capabilities, improving survivability and mission effectiveness in contested environments.

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## Geospatial data collection goal of new satellite constellation launch

EMMA HELFRICH, TECHNOLOGY EDITOR

EarthDaily Analytics Corp., a vertically-integrated data processing and analytics company, announced the timeline for the launch of the company's new constellation of earth observing satellites.

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## AI-powered platform to enable Air Force's Advanced Battle Management System efforts

EMMA HELFRICH, TECHNOLOGY EDITOR

Greystones Group, provider of artificial intelligence/machine (AI/ML) learning-based analytics, system engineering, force modernization, and cyberspace operations, has won one of several prime positions on the unrestricted Air Force Advanced Battle

Management System (ABMS) (IDIQ) contract, valued at \$950 million over 10 years.

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## AI procurement process piloted by JAIC to establish ethical use in DoD

EMMA HELFRICH, TECHNOLOGY EDITOR

The Department of Defense (DoD) Joint Artificial Intelligence Center (JAIC) is continuing to operationalize Responsible Artificial Intelligence (AI) with the announcement of a pilot of a procurement review process that will aim to ensure AI acquired by the JAIC is aligned with the DoD's AI Ethics Principles.

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## Optimizing AI-transportable compute architectures

BRADEN COOPER, ONE STOP SYSTEMS

Artificial intelligence (AI) in the military electronics industry is growing at a surreal rate. Recent innovations in various fields have coincided to bring the most powerful advancements in computing, sensor technology, and software to mission-critical scenarios. Just as GPUs continue to outpace Moore's law in terms of raw compute power, new sensor and networking interfaces bring larger and larger data sets in need of computing. These new technologies provide a key opportunity to bring the power of commercial and scientific AI advancements to military-transportable installations. The primary distinctions (and obstacles) between civilian data center-type AI applications and military-transportable deployments are the environmental, power, and security requirements of the missions.

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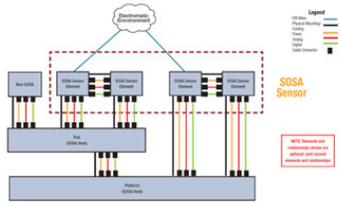


## Neural network research to better enable ethical AI decision making

EMMA HELFRICH, TECHNOLOGY EDITOR

Researchers from the U.S. Army Combat Capabilities Development Command, known as DEVCOM, Army Research Laboratory and university partners from the Internet of Battlefield Things Collaborative Research Alliance (IoBT CRA) announced the development of a method for neural networks to be more confident in their understanding of battlefield environments.

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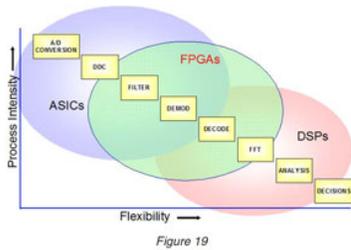
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## Achieving Data Interoperability for Modern Military Forces

BENCHMARK

This white paper details U.S. Department of Defense (DoD) expectations for DI and how defense contractors meet those requirements. This white paper also examines the meaning of DI in modern systems and its relationship to information interoperability.

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## Critical Techniques for High-Speed A/D Converters in Real-Time Systems 12th Edition

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