



JANUARY 2022

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.



Top 10 military AI stories of 2021

EMMA HELFRICH, TECHNOLOGY EDITOR

The most popular military artificial intelligence (AI) stories on militaryembedded.com throughout 2021 highlighted AI and machine learning innovations for defense such as the exploitation of big data, intelligent sensors, AI-powered aircraft maintenance, and more. Check them out below.

[Read More +](#)

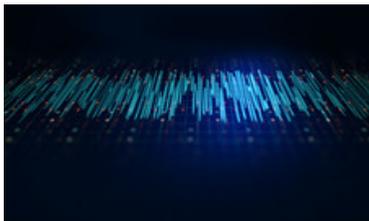


General Dynamics to demo multi-domain enabling tech at AUSA 2021

EMMA HELFRICH, TECHNOLOGY EDITOR

Four business units of General Dynamics will participate in the Association of the U.S. Army's (AUSA) 2021 Annual Meeting & Exposition to showcase technologies that are designed to enable multi-domain operations for the U.S. Army, including the ability to interoperate with key allies around the world.

[Read More +](#)



Military spectrum management: Spectrum sharing, quantum sensors, and AI advances

SALLY COLE, SENIOR EDITOR

U.S. military spectrum management is currently undergoing many changes – from spectrum sharing to technology advances in quantum sensors and artificial intelligence (AI).

[Read More +](#)

[AI-assisted communications technology](#)



debut from Invisio at AUSA

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Mission-critical communications company Invisio debuted its V-Series Gen II tactical communications platform at the AUSA trade show.

[Read More +](#)



Cybersecurity pilot program to automate weapon systems assessments

EMMA HELFRICH, TECHNOLOGY EDITOR

Viasat Inc., a global communications company, has announced it won a Department of Defense (DoD) contract to provide vulnerability assessment testing and response support under a new pilot program focused on improving the cybersecurity and resilience of DoD weapon systems.

[Read More +](#)



Synthetic Aperture Radar data to be integrated into Army payload lab

EMMA HELFRICH, TECHNOLOGY EDITOR

Capella Space, an information services company that provides an operational Earth observation data service, announced it has signed a Cooperative Research and Development Agreement (CRADA) with the U.S. Army Space and Missile Defense Technical Center (SMDTC).

[Read More +](#)



AI and machine learning software to support U.S. Navy shipboard IT

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Software company CORAS has won a prototype project agreement (PPA) with the U.S. Navy's Naval Information Warfare Center (NIWC) Atlantic for the Information Warfare Research Project (IWRP) that aims to use artificial intelligence (AI) and machine learning (ML) technologies to improve and troubleshoot shipboard information technology (IT) systems.

[Read More +](#)



GIDE-X, Onramps, PC21, IMX-22, PRAM-FX, and the Kill Web

RAY ALDERMAN, VITA TECHNOLOGIES

There's been a lot of activity going on in the past few months, testing different technologies and operational concepts. We need a model to organize those events to avoid confusion and reduce complexity. So, we'll use the basic structure of the Kill Web to make sense of it all. The JADC2 (Joint All-Domain Command and Control) program sits at the top.

[Read More +](#)

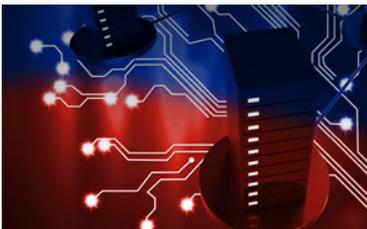


AI for pilot training aims to further human-machine teaming

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Mission-critical software provider Aptima has won a contract with the Air Force Research Laboratory (AFRL) to build and develop a library of artificial intelligence (AI)-enabled pilot agents that will match the AI with pilot trainees in scenarios that target the trainees' skill-building needs.

[Read More +](#)



SPONSORED WHITE PAPER

Anti-Tamper Benefits of Encrypted Helper-Data Images for PUFs

RAMBUS

PUFs are mixed-signal circuits which rely on variations unique to a specific chip to self-generate a digital "fingerprint." Most PUFs require a "helper-data" image that is generated during the initial digitization process, also known as Enrollment. Leveraging the chip-unique transformation function of PUFs and encrypted helper data, an unclonable challenge-response mechanism can be implemented that can distinguish authentic chips from perfect adversarial clones.

[Read More +](#)

SPONSORED WHITE PAPER

Considering the Make vs. Buy Decision for Flight-Certifiable Embedded Electronics

ABACO SYSTEMS



Aircraft designers and systems integrators are faced with an important question when it comes to embedded electronics. Is it better to develop the platforms inhouse or does it make sense to work with outside experts? General computer platform vendors can save these companies millions in costs and reduce developmental time.

[Read More +](#)

Simulate Your Machine Learning Stack on Wind River Simics

Sponsored by: Wind River

Date: January 13, 7:00 a.m. ET

[REGISTER NOW](#)

