



## JANUARY 2021

Military AI brought to you by the editors of [Militaryembedded.com](http://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 2020

EMMA HELFRICH, ASSOCIATE EDITOR

The most popular artificial intelligence (AI) stories on [militaryembedded.com](http://militaryembedded.com) throughout 2020 covered subjects such as the military's efforts to tackle the AI paradox, big data, AI in space, how to teach machines to learn, and more. Check them out below.

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### AI in government calls for more coordinated approach and leveraging partnerships, forum attendees assert

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The Center for Public Policy Innovation (CPPI) and the Homeland Security and Defense Forum (HSDF) -- which held a virtual symposium in October 2020 it called "Artificial Intelligence: Transforming the Government Mission" -- released its report on the symposium, in which the participants conclude that the most critical aspect of the use of artificial intelligence (AI) by the U.S. federal government is creating a secure supply chain and ensuring that security is built in from the beginning into the government's IT infrastructure, including in agencies' hardware, software, and cloud services.

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### AI algorithm achieves first flight as copilot during Air Force test

EMMA HELFRICH, ASSOCIATE EDITOR

The U.S. Air Force announced that it has conducted test flight with artificial intelligence (AI) as a working aircrew member onboard a military aircraft for the first time. The AI algorithm, known as ARTUμ, flew with the pilot on a U-2 Dragon Lady assigned to the 9th Reconnaissance Wing at Beale Air Force Base.

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## AI-powered autonomous navigation for unmanned systems gets exploratory contract from USAF

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Real-time location system (RTLS) provider Ubihere reports that it won a \$150,000 contract from the U.S. Air Force (USAF) to develop artificial intelligence (AI)-powered autonomous navigation for unmanned aircraft systems (UASs) and electric vertical takeoff and landing (EVTOL) vehicles.

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## AI partnership to enhance RF systems and data analysis

EMMA HELFRICH, TECHNOLOGY EDITOR

Northrop Grumman Corporation has announced that the company is on track to begin collaborating and investing in Deepwave Digital with the intent to support research, development, and integration of artificial intelligence (AI) technologies.

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## Skyborg program contract focused on AI in UASs won by Kratos

EMMA HELFRICH, ASSOCIATE EDITOR



Kratos Defense & Security Solutions, Inc., national security solutions provider and manufacturer of high-performance, jet-powered unmanned aerial systems (UAS), announced that Kratos has received a \$37.7 million award from the AFLCMC/WA Advanced Aircraft Program Executive Office.

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## AI adoption in the military, intel communities is the goal of Raytheon, c3.ai alliance

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Raytheon Intelligence & Space (a Raytheon Technologies business unit) and enterprise AI [artificial intelligence] software provider C3.ai have joined forces to develop AI solutions for defense and aerospace missions for government customers, including the U.S. Air Force and the U.S. intelligence community.

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## Top five McHale Report podcasts of 2020

JOHN MCHALE, EDITORIAL DIRECTOR

Our five most popular McHale Report podcasts for 2020 hosted by editors John McHale and Emma Helfrich featured guests from National Instruments, Liteye Systems, Pentek, and two guests from Mercury Systems on topics such as artificial intelligence for electronic warfare, the end of Moore's Law, the defense industry's response to COVID-19, counter-UAV advancements, and the Sensor Open Systems Architecture (SOSA) Consortium. Check them out below.

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## Top 10 military electronics stories of 2020

JOHN MCHALE, EDITORIAL DIRECTOR

The most popular stories on MilitaryEmbedded.com throughout 2020 covered subjects such as NASA's Artemis mission, radar for tracking hypersonics, certifying COTS software, big data challenges, and more. Check them out below.

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# How to Deploy AI Datacenters in Planes, Trains, Ships and Automobiles

SPONSORED WHITE PAPER

John Cox at PureB2B discusses bringing the power of AI to the field with no performance compromises. Technologies such as advanced high-performance computing, storage, and connectivity can be packaged in compact, ruggedized enclosures that fit into planes, trains, ships, tracked vehicles, cars, trucks, and utility trailers.

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