



## DECEMBER 2020

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.



### AI technologies focus of new Army research center

EMMA HELFRICH, ASSOCIATE EDITOR

According to the U.S. Army Combat Capabilities Development Command (DEVCOM), the U.S. Army will help to guide research at a \$7.5 million Department of Defense (DoD) center of excellence created to deliver artificial intelligence (AI) technologies.

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### AI and computer-vision software capable of deployment in safety-critical environments launched by CoreAVI

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Core Avionics & Industrial (CoreAVI) has launched what it calls its "Safe AI and Computer Vision solution" that uses its newest product, VkCoreVX SC, a safety-critical implementation of the Khronos Group's OpenVX1.3 API.

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### AI-enabled sensor system in development for unmanned aircraft

EMMA HELFRICH, ASSOCIATE EDITOR

General Atomics Aeronautical Systems, Inc.(GA-ASI) has won a \$93.3 million contract from the Joint Artificial Intelligence Center (JAIC) to enhance the autonomous sensing capabilities of unmanned aircraft.

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### Unmanned mine countermeasures system to utilize Big Data and AI

EMMA HELFRICH, ASSOCIATE EDITOR



Thales has won a joint contract to start the production phase of the Maritime Mine Counter Measures (MMCM) to deliver eight unmanned mine hunting systems to France and the U.K..

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## Cloud computing, supercomputers, black boxes, and the Kill Web

RAY ALDERMAN, VITA TECHNOLOGIES

Back in 1991, U.S. and coalition forces decimated the Iraqi Army in 42 days during Operation Desert Storm. At the time, Iraq had the world's fifth largest army. Can we do better than 42 days in the future? Yes, with the help of cloud computing and a supercomputer.

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## Machine learning approach could improve radar in congested environments

EMMA HELFRICH, ASSOCIATE EDITOR

Research being conducted by the U.S. Army Combat Capabilities Development Command (DEVCOM) is focused on a new machine learning approach that could improve radar performance in congested environments.

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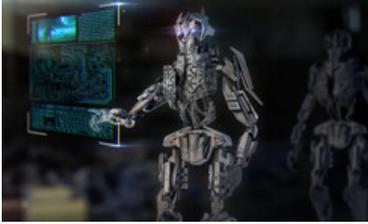
## Robot dogs and 3D Virtual Ops Center to supplement Tyndall Air Force Base

EMMA HELFRICH, ASSOCIATE EDITOR

Immersive Wisdom, Inc., company specializing in real-time geospatial collaboration software platforms, announced that it had been selected to provide a 3D Virtual Operations Center for the Air Force Base of the Future.

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## AI research aims to develop deep-learning architecture for warfighters



Researchers at the U.S. Army's corporate research laboratory developed an artificial intelligence (AI) architecture that can learn and understand complex events with the intent to enhance the trust and coordination between human and machine needed to complete battlefield missions.

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## Radio frequency comms systems equipped with AI to improve network resilience

EMMA HELFRICH, ASSOCIATE EDITOR

Perspecta Inc., announced that its applied research arm, Perspecta Labs, has received an award on the modular radio frequency (ModRF) program for the U.S. Army from the Consortium Management Group, Inc., on behalf of the Consortium for Command, Control and Communications in Cyberspace (C5). The award represents follow-on work for the company and has a value of \$13 million.

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## AI for Embedded Defense is Here

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