



## FEBRUARY 2020

Military AI brought to you by the editors of [Mil-Embedded.com](http://Mil-Embedded.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-based solution for ISR, EW shown by Curtiss-Wright at TSOA-ID

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Curtiss-Wright's Defense Solutions division demonstrated an open standards architecture (OSA)-based intelligence, surveillance, and reconnaissance (ISR) and electronic warfare (EW) system at the recent Tri-Service Open Architecture Interoperability Demonstration (TSOA-ID), which was held in Atlanta, Georgia.

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### Autonomous flight programs advanced by Kaman

EMMA HELFRICH, ASSOCIATE EDITOR

Kaman Air Vehicles, a division of Kaman Corporation, announced the advancement of its military and commercial K-MAX Unmanned Aerial Systems (UAS) programs to support U.S. Marine Corps future operating concepts.

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### AI-based platform to detect cyberattacks

EMMA HELFRICH, ASSOCIATE EDITOR

Thales introduced Cybels Analytics, a cybersecurity platform relying on artificial intelligence (AI) and Big Data analytics technologies. The platform is designed to detect cyber attacks in real time or in differed time (hunting). It operates as a single platform that allows individual users to adapt the AI algorithms to the specific operational context of each sector.

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## Intelligent Ship program to leverage AI

EMMA HELFRICH, ASSOCIATE EDITOR

The Defence and Security Accelerator (DASA) has announced the first wave of \$5.2 million (GBP4 million). The funding aims to revolutionize the way warships make decisions and process thousands of strands of intelligence and data by using artificial intelligence (AI).

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## Aircraft readiness to be improved using AI

EMMA HELFRICH, ASSOCIATE EDITOR

C3.ai, an artificial intelligence (AI) software provider for accelerating digital transformation, announced a five-year agreement with the Defense Innovation Unit (DIU) to deliver C3 Readiness for Aircraft, an AI-based software application that increases the readiness and availability of aircraft to accomplish their missions.

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## LM's smart satellite to enable space mesh networking

EMMA HELFRICH, ASSOCIATE EDITOR

Lockheed Martin (LM) is testing a new space-based computing method now being tested in-orbit, enabling artificial intelligence, data analytics, cloud networking, and advanced satellite communications in a new software-defined architecture. LM launched the Pony Express 1 mission as a hosted payload on Tyvak-0129, a next-generation Tyvak 6U spacecraft.

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## AI learning system to build trust between human and machine

EMMA HELFRICH, ASSOCIATE EDITOR

Raytheon is developing a machine learning technology under a \$6 million contract from the Defense Advanced Research Projects Agency (DARPA) for the Competency Aware Machine Learning program.

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## Autonomous learning applied to robotic swarm tactics

EMMA HELFRICH, ASSOCIATE EDITOR

Charles River Analytics Inc., developer of intelligent systems solutions, received funding from the Defense Advanced Research Projects Agency (DARPA) under the OFFensive Swarm-Enabled Tactics (OFFSET) program to develop Meta-Reinforcement Learning Innovation for Robust Swarm Tactics (MERLIN-RST). MERLIN applies a meta-reinforcement learning approach to discover and learn novel swarm tactics.

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## AI, big data transforming earth-observation market, study finds

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Mounting demand for enhanced intelligence, the market entry of cheaper imagery products from small-satellite operators, and the development of integration platforms leveraging artificial intelligence (AI) and big-data capabilities are some of the key trends transforming the earth observation industry, according to a recent analysis from Frost & Sullivan, "Global Earth Observation Market, Forecast to 2029."

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