



## AUGUST 2019

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.



### Deep learning algorithm to aid in Army intelligence gathering

EMMA HELFRICH, ASSOCIATE EDITOR

Scientists at the U.S. Army's corporate research laboratory are developing a new algorithm that could improve image and audio identification for intelligence gathering on the battlefield.

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### Intelligent radar framework published by HRL

EMMA HELFRICH, ASSOCIATE EDITOR

Scientists at HRL Laboratories have published their new framework for training computer deep neural networks to be able to classify synthetic aperture radar (SAR) images without a large labeled data set, solving the problem of SAR image identification when only a few labeled data were available.

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### AI system could improve U.S. Army fuel cell efficiency

EMMA HELFRICH, ASSOCIATE EDITOR

As part of an effort to address the gap the U.S. Army faces in the need for long-lasting power and batteries for warfighters, the Army Research Office funded a research team who developed an artificial intelligence system that officials say identifies a material for creating more efficient fuel cells.

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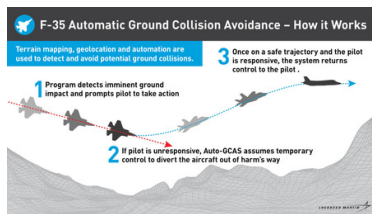


## Cyberspace analytics contract for USAF won by Enlighten IT and BEAT

EMMA HELFRICH, ASSOCIATE EDITOR

MacAulay-Brown, Inc., an Alion company, announced today that its subsidiary, Enlighten IT Consulting, LLC (EITC) has partnered with Business Enabled Acquisition & Technology on a contract award for the U.S. Air Force.

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## F-35 anti-collision software to be integrated ahead of schedule

EMMA HELFRICH, ASSOCIATE EDITOR

The F-35 Joint Program Office, U.S. Air Force, and Lockheed Martin have started integrating the Automatic Ground Collision Avoidance System (Auto-GCAS) on to Air Force F-35As in the fleet.

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## U.S. Army SATCOM systems to get software-based AI/ML boost

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Hughes Network Systems has won an R&D contract worth \$11.8 million from the U.S. Army to improve resiliency and interoperability among satellite communications systems used by the military..

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## Microsystems Exploration program announced by DARPA

EMMA HELFRICH, ASSOCIATE EDITOR

DARPA announced a new Microsystems Technology Office (MTO) effort called the Microsystems Exploration program.

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## AI-powered Squad X to go to battle alongside warfighters



EMMA HELFRICH, ASSOCIATE EDITOR

The Defense Advanced Research Projects Agency's (DARPA) Squad X Experimentation program aims to demonstrate a warfighting force with artificial intelligence as a true partner.

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## AI game-theory research to better cybersecurity and medicine

EMMA HELFRICH, ASSOCIATE EDITOR

U.S. Army game-theory research using artificial intelligence may help treat cancer and other diseases, improve cybersecurity, deploy soldiers and assets with more efficiency, and even win a poker game.

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### WHITE PAPER

## Artificial Intelligence in Software Defined SIGINT Systems

NATIONAL INSTRUMENTS

As wireless protocols grow more complex, spectrum environments become more contested and electronic warfare grows more sophisticated. Read how artificial intelligence and deep learning can be combined with commercial off-the-shelf software defined radio to train algorithms to detect new threats faster, reduce development risk and support burden, and be deployed in SWaP-constrained (size, weight and power) signals intelligence and spectrum monitoring scenarios.

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