MILITARY*AI*

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Military AI brought to you by the editors of 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.

perspecta

Photonic edge AI research contracted by DARPA

EMMA HELFRICH, ASSOCIATE EDITOR

Perspecta Inc. and its applied research arm, Perspecta Labs, was awarded a prime contract from the U.S. Defense Advanced Research Projects Agency (DARPA) to provide Photonic Edge AI Compact Hardware (PEACH) research under DARPA?s Artificial Intelligence (AI) Exploration program.
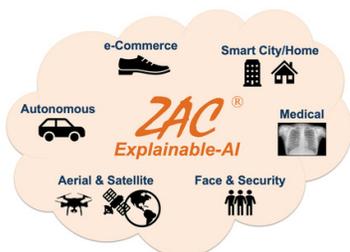
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AI game theory tool to strengthen military cyber defense

EMMA HELFRICH, ASSOCIATE EDITOR

Charles River Analytics Inc., developer of intelligent systems solutions, has received additional funding from the U.S. Air Force to build a Game-Theoretic Reasoning and Analysis of Vulnerability (GRAVITY) tool.

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Explainable-AI for UAV image recognition funded by USAF

EMMA HELFRICH, ASSOCIATE EDITOR

Z Advanced Computing, Inc. (ZAC), a software startup funded by the U.S. Air Force, will use ZAC's detailed 3D image recognition technology, based on Explainable-Artificial Intelligence (AI), for unmanned aerial vehicles' (UAV) aerial image/object recognition.

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Machine-learning contract for space scenarios won by BAE Systems

EMMA HELFRICH, ASSOCIATE EDITOR

BAE Systems has been awarded a Phase 2 contract to develop machine-learning capabilities aimed to help the military gain better awareness of space scenarios for the U.S. Defense Advanced Research Projects Agency (DARPA).

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Optionally piloted Black Hawk flies with Triumph sensors

EMMA HELFRICH, ASSOCIATE EDITOR

Triumph Group joins Sikorsky, a Lockheed Martin company, in announcing the first flight of the optionally piloted Black Hawk helicopter equipped with a fly-by-wire technology kit.

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Robotic Operations Center to introduce robotic process automation

EMMA HELFRICH, ASSOCIATE EDITOR

BAE Systems announced the launch of its new Robotic Operations Center (ROC) to customize and deploy suites of software robots that automate high-volume, repetitive tasks in support of U.S. national security missions.

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Using frameworks in machine learning

TAMMY CARTER CURTISS-WRIGHT DEFENSE SOLUTIONS

A framework is a toolbox for creating, training, and validating deep-learning neural networks. Using a high-level programming API, it hides the complexities of the underlying algorithms to greatly simplify and speed up development. Like deep learning, frameworks are evolving rapidly. This column will focus on frameworks that work with NVIDIA?s TensorRT, a tool for deploying high-?performance deep neural networks.

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UUV will have AI, geospatial info built in to hunt mines and other sea hazards

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Geospatial and data company Envitia -- together with partner BAE Systems Applied Intelligence, has won a contract to embark on one of the first artificial-intelligence (AI) projects for the British navy: To develop and deliver an AI-equipped unmanned underwater vehicle (UUV) that will hunt underwater mines.

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DoD AI chief cites progress on agency's artificial-intelligence capabilities

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Lt. Gen. Jack Shanahan, director of the Department of Defense (DoD) Joint Artificial Intelligence Center (JAIC), said in a recent press conference that he is "optimistic that 2020 will be a breakout year for the department when it comes to fielding A.I.-enabled capabilities," according to a DoD transcript.

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WHITE PAPER

AI for Embedded Defense is Here

ABACO SYSTEMS

An armed Humvee is moving at night thru a smoke-filled, urban battlefield. Using multiple displays, the crew has a 360? view that is daylight clear, delivered by an imaging system fusing data from optical, infrared, lidar, and radar sensors. The imaging data, combined with RF input, is also feeding into an onboard AI capability that identifies objects and categorizes them into threat levels. A moving object is instantly focused on by sensors and a window on the crew?s display zooms in; both the crew and the AI deep learning algorithms identify the moving object as a stray dog ? no threat. The Humvee never pauses.

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