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Military AI brought to you by the editors of 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.



Integrating AI into military operations discussed at Time Machine 2020

EMMA HELFRICH, ASSOCIATE EDITOR

Fighter pilot shortages, operation security concerns, and the need for rapid experimentation in the military have acted as driving forces behind the implementation of artificial intelligence (AI) in the Department of Defense (DoD). These themes were discussed by military industry AI leaders and data scientists to highlight how AI can bolster mission readiness at SparkCognition Government Systems' (SGS) virtual Time Machine 2020 AI Sessions event, held this week.

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AI technology to improve team performance under DARPA's ASIST program

EMMA HELFRICH, ASSOCIATE EDITOR

Charles River Analytics Inc. (CRA), developer of intelligent systems solutions, has won a four-year, cross-disciplinary research effort. Under the Defense Advanced Research Projects Agency's (DARPA's) Artificial Social Intelligence for Successful Teams (ASIST) program, CRA is creating a Prescient, Socially Intelligent Coach (PSI-Coach) that will aim to understand team behaviors and improve team performance.

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Intelligent mobile surveillance towers use AI, sensors to reduce workload for border and antiterrorism agents

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Elbit Systems of America is supplying two variants of its intelligent and autonomous trailer-mounted surveillance tower systems -- aimed at reducing operator workload

and increasing situational awareness and safety -- to the U.S. Customs and Border Protection Agency (CBP) and the U.S. Combating Terrorism Technical Support Office (CTTSO).

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AI and quantum science institutes get \$1 billion-plus investment from U.S. government

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The National Science Foundation (NSF), the U.S. Department of Energy (DOE), and the White House Office of Science and Technology Policy announced the granting of more than \$1 billion in awards for the establishment of 12 new artificial intelligence (AI) and quantum information science (QIS) research institutes across the U.S.

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Rugged and SWaP optimized supercomputers for unmatched performance at the Edge

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A composite image featuring a fighter jet in flight, a naval ship at sea, and two rugged supercomputer units. The Eurotech logo is at the bottom left.

AI and ML tech to automate U.S. Navy maintenance

EMMA HELFRICH, ASSOCIATE EDITOR

Google Cloud and Simple Technology Solutions (STS) — a Google Cloud partner and small business specializing in multi-cloud solutions for the federal government — announced they are working with the U.S. Navy to modernize the maintenance and repairs inspection process for Navy vessels and facilities.

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AI-powered pilot training initiative supported by CAE USA

EMMA HELFRICH, ASSOCIATE EDITOR

CAE USA has won a contract from the Defense Innovation Unit (DIU) to support the U.S. Air Force Air Education and Training Command (AETC) and its Undergraduate Pilot Training (UPT 2.5) initiative.

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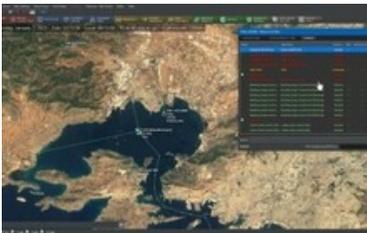


AI defeats manned F-16 in DARPA-led Alpha Dogfight Trials

EMMA HELFRICH, ASSOCIATE EDITOR

An artificial intelligence (AI) algorithm soundly defeated an experienced U.S. F-16 fighter pilot in a simulation of an aerial dogfight, the Pentagon said. The event, called Alpha Dogfight Trials, was part of the Air Combat Evaluation program of the Pentagon's Defense Advanced Research Projects Agency (DARPA).

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AI exploitation under DARPA program to enhance military strategy

EMMA HELFRICH, ASSOCIATE EDITOR

Northrop Grumman Corporation won a contract from the U.S. Defense Advanced Research Projects Agency (DARPA) Strategic Technology Office (STO) for the Gamebreaker program. This program seeks to develop and apply artificial intelligence (AI) to existing real-time strategy games to break a complex model or create an imbalance.

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AI integrated into unmanned ground vehicles will transform forces, study says

EMMA HELFRICH, ASSOCIATE EDITOR

The use of artificial intelligence (AI) in unmanned ground vehicles (UGVs) will transform force structures and change the defense market by expanding the use of UGVs in scenarios outside their most common ones -- including ordnance disposal and demining -- but will retain their main goal: to remove soldiers from harm's

way, according to a new study from GlobalData, "Unmanned Ground Vehicles (Defense) -- Thematic Research."

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