

JUNE 2020

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.

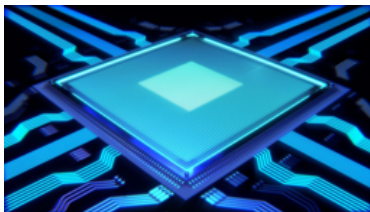


Deepfake AI software developed for Titan C-UAS

EMMA HELFRICH, ASSOCIATE EDITOR

Citadel Defense, full-spectrum counter-drone solutions company, released new software incorporating deepfake neural networks to protect against adversarial spoofing tactics.

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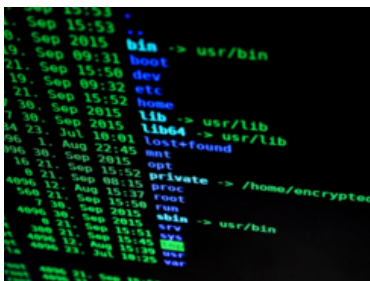


SparkCognition unveils new full-spectrum defense AI business

EMMA HELFRICH, ASSOCIATE EDITOR

SparkCognition, company specializing in artificial intelligence (AI), announced the creation of SparkCognition Government Systems (SGS), full-spectrum AI company devoted to government and national defense, a first according to the company. SGS, a wholly owned subsidiary of SparkCognition, intends to offer next-generation, AI-powered systems to address national security needs.

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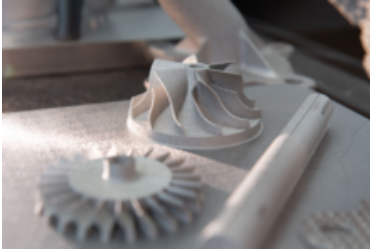


Intelligent automation solutions to be delivered to Army

EMMA HELFRICH, ASSOCIATE EDITOR

Blue Prism, company specializing in Robotic Process Automation (RPA), announced that it has partnered with the ImmixGroup to deliver intelligent automation solutions to the U.S. Army via its Computer Hardware Enterprise Software and Solutions (CHES) Program.

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Predictive maintenance potential outlined in 3-D printing study

EMMA HELFRICH, ASSOCIATE EDITOR

A new study published in the International Journal of Advanced Manufacturing Technology showed that the U.S. Army could detect and monitor the wear and tear of 3-D printed maraging steel through sensor measurement.

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Intelligence-gathering to be enhanced under AFWERX contract

EMMA HELFRICH, ASSOCIATE EDITOR

AI.Reverie, company specializing in synthetic data generation and machine learning startup, announced that it has won an AFWERX Small Business Innovation Research (SBIR) Phase I contract to enhance computer vision models for the Department of Defense (DoD). The award extends AI.Reverie's partnership with the U.S. Air Force to the U.S. Army.

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AI-powered ISR capability introduced by Lockheed Martin

EMMA HELFRICH, ASSOCIATE EDITOR

In partnership with the Air Force Test Pilot School, Lockheed Martin Skunk Works demonstrated an autonomous Intelligence, Surveillance and Reconnaissance (ISR) system to enhance operational effectiveness for the warfighter in denied communications environments.

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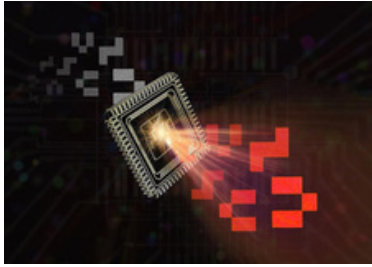


THEMIS UGV completes first deployment in Mali

EMMA HELFRICH, ASSOCIATE EDITOR

Milrem Robotics, the provider of robotic solutions for challenging environments, completed its first deployment period of its unmanned ground vehicle (UGV), THEMIS, in operation Barkhane in Mali. The THEMIS was initially deployed to Mali with the Estonian Defence Forces (EDF) during a French lead counter-terrorism operation in April 2019.

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Autonomous vehicles and robots are about to get even smarter

SALLY COLE, SENIOR EDITOR

Ultrafast image sensors with built-in neural networks that can sense and process optical images without latency – an application that will no doubt be useful in unmanned systems, drones, and robots in the military arena.

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PODCAST: AI and signal processing trends in electronic warfare and radar applications

JOHN MCHALE, EDITORIAL DIRECTOR

In this podcast, Haydn Nelson, Principal Marketing Manager for Wireless Prototyping Deployment at National Instruments, discusses with me how AI can benefit the warfighter through embedded signal processing applications as well as the impact open architecture initiatives such as the Sensor Open Systems Architecture (SOSA) have on military technology development. He also talks about test and measurement solutions fit into this ecosystem.

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