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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.



Automated vehicle capability in development with Rheinmetall

EMMA HELFRICH, ASSOCIATE EDITOR

Rheinmetall announced the launch of its first Australian research and technology program, the Autonomous Combat Warrior (ACW) program. Under this program, Rheinmetall's Australian, German, and Canadian development teams will work alongside research teams to develop advanced sovereign robotics and automated vehicle technologies. This will create a local automated military vehicle capability.

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Machine learning, sensor suites to improve situational awareness

EMMA HELFRICH, ASSOCIATE EDITOR

Charles River Analytics Inc., developer of intelligent systems solutions, has received funding from the U.S. Army Research Institute for the Behavioral and Social Sciences to build the Physiological Index of Situation Awareness (PISA) system with SA Technologies. The unobtrusive, multimodal, and real-time PISA system monitors soldiers' evolving situational awareness (SA) and determines when lapses in SA occur.

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AI-powered, counter-UAS system delivered by Citadel Defense

EMMA HELFRICH, ASSOCIATE EDITOR

Citadel Defense, the manufacturer of innovative, high-performance counter-unmanned aerial system (C-UAS) solutions for military, government, and commercial markets, announced that its artificial intelligence (AI)-powered system, Titan, has been selected by a military service customer for mission-critical ground and airspace perimeter security deployments overseas. The number of Titan systems delivered and details about the contract were not disclosed by the company.

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Autonomous, rugged UGV introduced by Milrem Robotics

EMMA HELFRICH, ASSOCIATE EDITOR

Milrem Robotics, manufacturer of unmanned ground vehicles (UGV) introduced its mission-proven, fifth-generation THeMIS UGV designed to assist soldiers on the battlefield while enhancing their combat effectiveness at UMEX 2020. The THeMIS UGV has been designed with the intent to withstand harsh environments and hot climates.

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Machine learning threat intelligence to secure USCYBERCOM

EMMA HELFRICH, ASSOCIATE EDITOR

Recorded Future, security intelligence company, announced it won a Production-Other Transaction



Agreement (P-OTA) contract facilitated by the Defense Innovation Unit (DIU) for threat intelligence, tasking to company to provide real-time threat analysis to approved federal agencies on an expedited basis.

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AI-based algorithm training contract won by L3Harris

EMMA HELFRICH, ASSOCIATE EDITOR

The Air Force Life Cycle Management Center has awarded L3Harris Technologies a multi-million dollar contract to develop a software platform that will make it easier for analysts to use artificial intelligence (AI) to identify objects in large data sets.

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Secure comms for robotic systems in development for Army

EMMA HELFRICH, ASSOCIATE EDITOR

Persistent Systems, LLC announced that it won a \$5.4M contract by the U.S. Army Combat Capabilities Development Command C5ISR Center to develop Protected Communications for Manned-Unmanned Teams (MUM-T).

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Military AI innovation, SOSA hot topics at Embedded Tech Trends

JOHN MCHALE, EDITORIAL DIRECTOR



The COTS Confidential Roundtable gathers experts from the defense electronics industry ? from major prime contractors to defense component suppliers. Each Roundtable will explore topics important to the military embedded electronics market. This issue, we discuss how embedded computing suppliers are leveraging artificial intelligence (AI) for military applications and more.

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PODCAST: SOSA, Tri-Service Demo, AI and signal processing

JOHN MCHALE, EDITORIAL DIRECTOR

Open architecture initiatives such as the Sensor Open Systems Architecture (SOSA) effort are showing tremendous momentum at the start of 2020, as demonstrated by the turnout and enthusiasm of attendees at the Tri-Services Open Architecture Interoperability Demonstration at the Georgia Tech Research Institute in January. My colleague Emma Helfrich and I along with guest Rodger Hosking, Vice President and Co-founder of Pentek, discuss these initiatives, their benefits, the business model roadblocks, and more.

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