



MAY 2021

Military AI brought to you by the editors of [Militaryembedded.com](https://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.



AI-powered weapon-target pairing and computer vision among new Parsons tech

EMMA HELFRICH, TECHNOLOGY EDITOR

Parsons Corporation announced that it is developing and deploying artificial intelligence (AI) across a wide array of federal solutions and critical infrastructure projects to solve challenging problems, produce actionable intelligence, and improve user experience.

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Intelligent infantry fighting vehicle to replace Bradley fleet in 2028

EMMA HELFRICH, TECHNOLOGY EDITOR

Raytheon Technologies and American Rheinmetall Vehicles announced that the companies are developing an infantry fighting vehicle that can conduct close-combat operations, survive modern threats like anti-tank guided missiles and cyber attacks, and use artificial intelligence (AI) to aid decision making.

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Autonomous mobile C-UAS system enabled with AI and ML

EMMA HELFRICH, TECHNOLOGY EDITOR

Milrem Robotics, a European robotics and autonomous systems developer, and Marduk Technologies, a provider of Counter-Unmanned Aerial System (C-UAS) solutions jointly launched a mobile autonomous C-UAS platform intended to offer protection against loitering munition and surveillance drones.

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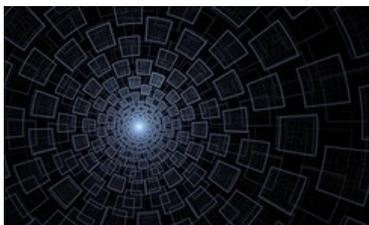


Abaco Systems to be bought by Ametek

JOHN MCHALE, EDITORIAL DIRECTOR

Officials from Ametek announced that the company has entered into a definitive agreement to acquire Abaco Systems, Inc., a provider of mission-critical embedded computing systems for electronic warfare, radar, avionics, communications, and other military applications from Veritas Capital in an all-cash transaction valued at \$1.35 billion.

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AI technology projected to be worth \$11 billion in military market by 2025

EMMA HELFRICH, TECHNOLOGY EDITOR

The report "Artificial Intelligence in Military Market", is estimated at \$6.3 billion in 2020 and is projected to reach \$11.6 billion by 2025, at a CAGR of 13.1% during the forecast period, according to an ASD Reports study. An increase in funding from military research agencies and a rise in research and development activities to develop advanced artificial intelligence (AI) systems are projected to drive the increased adoption of AI systems in the military sector.

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Machine learning research findings could bolster quantum information transfer

EMMA HELFRICH, TECHNOLOGY EDITOR

According to the Army Research Lab, Army-funded researchers have demonstrated a machine learning

approach that could correct quantum information in systems composed of photons, intended to improve the outlook for deploying quantum sensing and quantum communications technologies on the battlefield.

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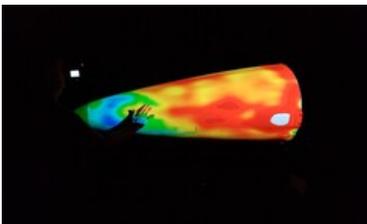


AI-powered mass notification tech to use Big Data to better assess potential threats

EMMA HELFRICH, TECHNOLOGY EDITOR

Geospark Analytics, company specializing in developing artificial intelligence (AI) solutions for risk and threat assessment, has won a Phase II Small Business Innovation Research (SBIR) contract from the U.S. Air Force to develop a mass notification capability for its Hyperion platform.

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Automated hypersonic missile production line to better achieve consistent assembly

EMMA HELFRICH, TECHNOLOGY EDITOR

Aerobotix, a robotics integrator and metrology company, has begun utilizing a next-generation hypersonic production line. A robotic assembly line scans, sands, paints, and measures complex missile components achieving critical tolerances required for hypersonic flight.

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Counter-drone system equipped with AI to be delivered to DoD

EMMA HELFRICH, TECHNOLOGY EDITOR

Citadel Defense announced that it has received a follow-on urgent contract award from the U.S. Department of Defense (DoD) to protect the military from small drone threats.

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How Can I Teach My Machine to Learn?

SPONSORED WHITE PAPER

In this white paper, we examine the supervised and unsupervised machine learning methods and the hybrid approach of semi-supervised machine learning. This paper also covers machine learning frameworks that simplify neural network creation, training and validation. Finally, we will examine hardware foundations for machine learning in rugged applications.

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