U.S. Army preps for future of AI on the battlefield

SALLY COLE, SENIOR EDITOR

As the U.S. Army launches a project to bring artificial intelligence (AI) to the battlefield, other researchers have developed tests to determine whether systems are using ?explainable artificial intelligence,? which can play a crucial role in preventing undesirable decision-making.

Leveling up on war gaming

LISA DAIGLE, ASSISTANT MANAGING EDITOR

HRL Laboratories -- an R & D lab owned by The Boeing Company and General Motors -- has embarked on a new program with the Defense Advanced Research Projects Agency (DARPA) that aims to develop an artificial intelligence (AI) decision-making engine for multiagent military problems such as multidomain war gaming and strategic battle management.

DARPA requests AI, synthetic technologies in fourth OFFSET sprint

MARIANA IRIARTE, TECHNOLOGY EDITOR

Officials at the Defense Agency Research Projects Agency (DARPA) are soliciting creative proposals for the fourth swarm sprint in its OFFensive Swarm-Enabled Tactics (OFFSET) program.

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AI in safety-certification efforts evolving

MARIANA IRIARTE, TECHNOLOGY EDITOR

Artificial intelligence (AI) has the potential to change the way technology progresses, if created and developed properly to fit the needs of the industry. For avionics suppliers, it’s a tricky field, with years of research and development (R&D) ahead of them to develop AI solutions focused on easing the safety-certification process.

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DARPA program studies use of AI to generate more effective human-machine teaming

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The Defense Advanced Research Projects Agency (DARPA) is studying the basic machine "social skills" that will be needed to generate effective human-machine collaboration.

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Autonomous adaptable software systems under development by Charles River Analytics, partners

LISA DAIGLE, ASSISTANT MANAGING EDITOR

Intelligent-systems developer Charles River Analytics is partnering with the University of Southern California, Harvard University, the University of Birmingham, and Metron Scientific to develop a program called Probabilistic Representation of Intent Commitments to Ensure Software Survival (PRINCESS).

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AI, AR, quantum computing will drive DoD spending to 2023, says report

LISA DAIGLE, ASSISTANT MANAGING EDITOR

A new market study from Frost & Sullivan, "US DoD C4ISR, 2018-2023," predicts that U.S. Department of Defense (DoD) spending on C4ISR [command, control, communications, computer, intelligence, surveillance, and reconnaissance] technologies will have a combined annual growth rate (CAGR) of 3.3 percent through 2023.

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DARPA program: Progress seen on lifelong learning for machines

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The Defense Advanced Research Projects Agency (DARPA) Lifelong Learning Machines (L2M) program reports some progress toward its goal of developing
computer systems that can learn continuously and become increasingly expert while performing tasks.

Autonomous aircraft market to be worth $23.7 billion by 2030, study says

LISA DAIGLE, ASSISTANT MANAGING EDITOR

The autonomous aircraft market is projected to grow from an estimated $3.6 billion in 2018 to $23.7 billion by 2030, at a CAGR of 17.06 percent during the period covered, according to a market study from MarketsandMarkets, "Autonomous Aircraft Market by Technology (Increasingly Autonomous, and Fully Autonomous), End Use (Commercial, Combat & ISR, Cargo, Passenger Air Vehicle, Personal Air Vehicle, Air Medical Services), Component, and Region -- Global Forecast 2030."

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