

READINGS ON ARTIFICIAL INTELLIGENCE (AI)

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THE COMING REVOLUTION IN INTELLIGENCE AFFAIRS (Anthony Vinci, August 31, 2020)

For all of human history, people have spied on one another. To find out what others are doing or planning to do, people have surveilled, monitored, and eavesdropped—using tools that constantly improved but never displaced their human masters. Artificial intelligence (AI) and autonomous systems are changing all of that. In the future, machines will spy on machines in order to know what other machines are doing or are planning to do. Intelligence work will still consist of stealing and protecting secrets, but how those secrets are collected, analyzed, and disseminated will be fundamentally different.

Military futurists have recognized a similar sea change, and some have dubbed the rise of AI and autonomous weapons systems a “revolution in military affairs.” Its analog in intelligence can be understood as a “revolution in intelligence affairs.” Through the coming RIA, machines will become more than just tools for information collection and analysis. They will become intelligence consumers, decision-makers, and even targets of other machine intelligence operations. The ultimate concern of these machines will still be the political, social, economic, and military relations of human beings—but machine-driven intelligence will operate at such speed, scale, and complexity that human-driven intelligence will no longer be able to keep up. There is no stopping the RIA. The forces of technological innovation and competition have already unleashed it on the world. Instead, the U.S. intelligence community must embrace the RIA and prepare for a future dominated by AI—or else risk losing its competitive edge.

THE RISE OF MACHINE-DRIVEN INTELLIGENCE

Revolutions don't come out of nowhere. The RIA's origins date back to the twentieth century, when new technologies such as telecommunications and computing brought intelligence tradecraft new sophistication. Humans remained the agents of intelligence, but instead of watching with their own eyes, overhearing with their own ears, and analyzing and predicting with their own minds, they drew on increasingly powerful sensors and computing tools to enhance their capabilities.

Over the last 20 years this trend accelerated, leading to an enormous increase in the amount of data available to intelligence agencies. Classified and commercial sensors, ranging from bots on networks to autonomous drones to small satellites in space, now produce more information than humans could ever comprehend on their own. In 2017, the National Geospatial-Intelligence Agency predicted that the data its analysts would have to parse would increase a millionfold within five years. So much data so fast has ginned up fierce competition to make sense of it all—a dynamic that in turn has driven the adoption of automation, big data analytics, and AI. The pressure to keep up is tremendous: nations whose intelligence agencies can swiftly process vast quantities of complex data will have an edge over those that can't.

The parallel shift to autonomous systems and AI among the world's militaries has only intensified the competitive pressure: intelligence agencies need to be able to target and support advanced warfighting systems. Already, the U.S. military operates more than 11,000 unmanned aerial systems and even more

underwater, space, and terrestrial systems. In addition, U.S. cybersecurity units must deal with millions of bots on global networks as well as billions of Internet of Things devices that act as sensors. These ever-proliferating systems require their own intelligence to operate, meaning that over time they will become the primary intelligence customers.

Even more revolutionary will be the shift to autonomous systems as intelligence targets—that is, when machines begin to spy on and deceive other machines. A plausible future scenario might involve an AI system that is charged with analyzing a particular question, such as whether an adversary is preparing for war. A second system, operated by the adversary, might purposefully inject data into the first system in order to impair its analysis. The first system might even become aware of the ruse and account for the fraudulent data, while acting as if it did not—thereby deceiving the deceiver. This sort of spy-versus-spy deception has always been part of intelligence, but it will soon take place among fully autonomous systems. In such a closed informational loop, intelligence and counterintelligence can happen without human intervention.

To understand what is at stake, consider an analogy from the financial world. High-speed quantitative trading systems rely on algorithms that sense changes in global stock markets, analyze huge sums of data to make predictions, and then automatically execute trades in a matter of microseconds. Humans can't operate at anywhere close to the same speed and scale. In order to keep up with the competition, even the most stalwart investment firms increasingly rely on quantitative trading systems. To compete with one another for secrets, intelligence agencies will increasingly require AI and autonomous systems, too.

ADAPTING THE INTELLIGENCE COMMUNITY

As machines become the primary collectors, analysts, consumers, and targets of intelligence, the entire U.S. intelligence community will need to evolve. This evolution must start with enormous investments in AI and autonomization technology as well as changes to concepts of operations that enable agencies to both process huge volumes of data and channel the resulting intelligence directly to autonomous machines. As practically everything becomes connected via networks that produce some form of electromagnetic signature or data, signals intelligence in particular will need to be a focus of AI evolution. So will geospatial intelligence. As satellites and other sensors proliferate, everything on earth will soon be visible at all times from above, a state that the federal research and development center Aerospace has called the “GEOINT Singularity.” To keep up with all this data, geospatial intelligence, like signals intelligence, will need to radically enhance its AI capabilities.

The U.S. intelligence community is currently split up into different functions that collect and analyze discrete types of intelligence, such as signals or geospatial intelligence. The RIA may force the intelligence community to reassess whether these divisions still make sense. Electromagnetic information is electromagnetic information, whether it comes from a satellite or an Internet of Things device. The distinction in origin matters little if no human

Readings In Artificial Intelligence

Julia Schneider



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