

Autonomous Weapon Systems A Brief Survey Of Developmental Operational Legal And Ethical Issues

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Autonomous Weapon Systems A Brief

In Brief: AUTONOMOUS WEAPON SYSTEMS: SELECTED ...

AUTONOMOUS WEAPON SYSTEMS: SELECTED IMPLICATIONS FOR INTERNATIONAL SECURITY AND FOR CANADA 6 43 HUMAN Because their use might reduce the number of casualties, autonomous weapon systems could have human benefits For example, militaries might replace human-operated fighter aircraft with such systems, thereby eliminating the risk to their pilots

WHY THE HURRY TO REGULATE AUTONOMOUS WEAPON ...

_301_ANDERSON_ARTICLE 2 (DO NOT DELETE) 11/15/2016 5:59 PM 2016] WHY THE HURRY TO REGULATE AUTONOMOUS WEAPON SYSTEMS 19 poses any special challenge to the law of weapons and legal weapons review By contrast, the weapon systems that matter in ...

DoD Directive 3000.09, November 21, 2012; Incorporating ...

(3) Autonomous weapon systems may be used to apply non-lethal, non-kinetic force, such as some forms of electronic attack, against materiel targets in accordance with DoD Directive 3000 0 3 E (Reference (d)) d Autonomous or semi-autonomous weapon systems intended to be used in ...

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International Discussions Concerning Lethal Autonomous ...

advances, lethal autonomous weapon systems (LAWS)— weapons designed to make decisions about using lethal force without manual human control—may soon make their appearance, raising a number of potential ethical, diplomatic, legal, and strategic concerns for Congress By providing a brief overview of ongoing international

ODUMUNC 39 - odu.edu

far as is known presently, no such weapon is considered battle-ready However, the development of these weapons has been 1 "The Ethics of Autonomous Weapons Systems " The Ethics of Autonomous Weapons Systems: The Ethics of Autonomous Weapons Systems • Penn Law November 21, 2014 Accessed October 29, 2015 taken very seriously by the more

The Weaponization of Increasingly Autonomous Technologies ...

The earliest days of the international discussion on autonomous weapon systems focused on human rights and legal concerns, but over time, as governments have developed a deeper appreciation of the issues surrounding autonomy in weapon systems, additional concerns have been brought to the table

Policy Papers and Briefs - 8, 2017 LETHAL AUTONOMOUS ...

semi-autonomous weapons, which they claim are already regulated, from the discussion'; so that it reads 'exclude semi-autonomous weapons, since the human operators of these systems are 'obliged to comply with the rules of armed conflict and all other applicable international law treaties'6 Fully autonomous weapons, however, might not

Law and Ethics for Autonomous Weapon Systems: Why a Ban ...

systems are banned outright and a world of legal void and ethical collapse on the battlefield 2 Yet an outright ban on autonomous weapon systems, even if it could be made effective, trades whatever risks autonomous weapon systems might pose in war for the real, if less visible, risk of failing to develop

Mapping the development of autonomy in weapon systems

Autonomy in 'semi-autonomous' and 'autonomous' weapon systems 36 Figure 34 Short-range air defence systems: Phalanx close-in weapon system 38 Figure 35 Long-range air defence systems: Patriot missile defence system 39 Figure 36 Countries with 'automatic' or 'semi-automatic' air defence systems ...

Lethal autonomous weapons systems (LAWS)

Lethal autonomous weapons systems (LAWS) ROFF, Heather M Lethal Autonomous Weapons and Jus Ad Bellum Proportionality Scharre, Paul, Autonomous Weapons and Operational Risk, Centre for New American Studies SCHMITT, Michael - Autonomous Weapon Systems and International Humanitarian Law: A Reply to the Critics SHARKEY, Noel - The inevitability of autonomous robots ...

Lethal Autonomous Weapon Systems: Issues for Congress

Lethal Autonomous Weapon Systems: Issues for Congress Congressional Research Service R44466 · VERSION 4 · UPDATED 2 competitor states or non-state entities5 Robotics and autonomous systems have been highlighted by the DOD as a component of this overall future effort of the US military6 Congress also sets the legal standards for the conduct of United States forces during armed

Army REF Overview Brief

Army REF Overview Brief 16 DEC 2019 UNCLASSIFIED Assess Equip Insert Inform Weapon Systems Movement + Maneuver Autonomous Systems

Network of networks, single entity Camera Systems Facilitate remote viewing of video wireless or hard line EM Reduction Deter or

AI Principles: Recommendations on the Ethical Use of ...

Oct 31, 2019 · autonomous systems may use AI in their software architectures, this is not always the case For example, DoD Directive 300009 addresses autonomy in weapons systems, but it neither addresses AI as such nor AI capabilities not pertaining to weapon systems 15 Finally, AI is neither inherently positive nor negative 16

PREPARING FOR THE FUTURE OF ARTIFICIAL INTELLIGENCE

EXECUTIVE OFFICE OF THE PRESIDENT NATIONAL SCIENCE AND TECHNOLOGY COUNCIL WASHINGTON, DC 20502 October 12, 2016 Dear colleagues: Advances in Artificial Intelligence (AI) technology have opened up new markets and new opportunities

“New Warriors and New Weapons: The Ethical Ramifications ...

weapons delivery These systems also improve situational awareness and reduce many of the emotional hazards inherent in air and ground combat, thus decreasing the likelihood of causing civilian noncombatant casualties Autonomous versions of these unmanned systems would sense, decide, and act more quickly than humans, bolster conventional

Opening remarks at First Committee side event “The urgent ...

Thank you for the invitation from the Campaign to Stop Killer Robots to provide brief remarks on this important topic at the opening of your event The issue of lethal autonomous weapons systems

The Equilibrium of Violence: Accountability in the age of ...

example, of the cotton gin, the computer, and in our case, autonomous weapons systems Autonomous weapons systems increase the ability of state actors to produce violence Thus, the emergence of new military technology has the potential to destabilize the equilibrium that the legal regime has crafted and overproduce violence The following graph

Armored Reconnaissance Vehicle (ARV) Advanced Technology ...

energy weapon attacks without a total loss of mobility or system functionality - Potential Research Ideas: •Active protection systems, counter tactical surveillance and targeting systems, slew-to-cue, lightweight armor materials, improved signature management across the EM spectrum, overmatch mitigation, fire suppression systems,

No Armed Drones Act of 2017 (HR 129, 115th Congress)

Humans & Autonomy Lab Her research is at the intersection of humans, autonomous systems, and the sociotechnical implications Relevant publication: Cummings, Mary L 2017 "Artificial Intelligence and the Future of Warfare" London: International Security Department and US and the Americas Programme, Chatham House