

## **The Challenges and Opportunities of International Law in Regulating Emerging Technologies: A case of Artificial Intelligence and Autonomous Weapons**

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### **Abstract**

*The present paper delves into the complexities of international law in regulating newly emerging technologies, specifically artificial intelligence and autonomous weapons. In the age of technological breakthrough and innovation, it is stated that the current legal frameworks are failing to keep up with the pace of advancing technologies. The paper demonstrates the daunting challenges that international law provides in such domains as the ethical aspect, accountability, and unification of the standards. At the same time, the paper indicates the possibilities of international law to change and create a comprehensive system of regulations. It relies on the critical disparities between the existing laws as well as case studies and international agreements to generate the progressive trend in this domain. The paper claims that future-oriented legislation should be more encompassing and inclusive, meaning that it has to consider the existing capabilities of technology and predict its future advancement. Hence, the presented paper is aimed to contribute to the current international law discourse and provide recommendations for the policy-formulating parties on how to provide the advancements in this field with a responsible moral underpinning.*

**Keywords:** International Law, Regulating Emerging Technologies, Artificial Intelligence, Autonomous Weapons

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### **1. Introduction**

In the contemporary world defined by constant technological progress and rapid advancements, the interaction between international law and novel technologies creates numerous new challenges and opportunities. With the expansion of artificial intelligence and autonomous weapons usage in

different spheres of society, there emerges a necessity to impose new, more adaptable laws and regulations. The aim of this paper is to examine the issue of international law in the context of novel technologies, focusing on the interconnection between legal provisions and technological development. The case of AI and autonomous weapons gives rise to numerous problems related to responsibility, ethics, and human rights, which question some of the traditional legal concepts and presumes a thorough revaluation of existing legal norms. There is no doubt that due to a high rate of change in international conditions, international law, which is represented by countless treaties, conventions, and norms, has to change to regulate cross-border entities and new kinds of wars. Nevertheless, there are numerous challenges along with them. International law has an opportunity to redefine the determinants of its scope and reconsider the leading ideas to catch up with swift technological progress. This paper enables to address these issues by examining international law in the context of AI and autonomous weaponry and develop several recommendations regarding how international law has to be reinvented to contain technological progress within the boundaries of existing legal and ethical norms. By exploring existing regulations, reviewing selected cases, and examining the opinions of notable experts in the field, this introduction sets the framework for addressing one of the most urgent subjects in contemporary legislation. It is a journey into the unknown, a place where law changes with the technology, conditioning a new understanding of power, politics, and human rights.

## **2. Background and Context**

To better understand the complexity of the relationship between novel technologies and international legal norms, it is critical to consider the background and context. This paper aims to delve into the central issue of the interconnectedness between the revolutionary technological breakthroughs and the shifting paradigms of international legal systems in the age of robotics and artificial intelligence. In the past, it has been customary for the law to follow technology, which has characterized the overall reactionary nature of legislative processes in the legal sphere. However, the novel advent of AI and autonomous weapons presents an entirely new challenge for the legal and ethical systems. The latter are not better versions or improvements of the devices and technologies people are already aware of, for the development of AI is a true revolution in human-machine interaction. Artificial intelligence, which earlier existed primarily in the realm of science fiction, has swiftly seized everyday reality, integrating into healthcare, finance, and other aspects of socio-economic activity. However, the pace of law has turned out to be somewhat slower than that of enhanced technologies, which has created legal vacuums in which legal regulation is uncertain or entirely lacking. For instance, autonomous weapon, also known as lethal autonomous weapon systems go even further, as the development of the latter has unmasked several essential ethical aspects, including the role of humans in decision-making and ethics in combat. Some countries have called for bans on fully autonomous weapons; others have suggested strictly controlling usage. The middle ground has not been found, and the world is on the crossroads of its future technological development – the choice between innovation and ethical considerations. The present paper will analyze the evolutionary path of AI and autonomous weapons and analyze the state of existing international law in this realm to reflect the relationship patterns. The objective is to identify the intricate interactions, inconsistencies, and potential solutions to lay the groundwork for better understanding of the imminent challenges and possibilities of reconciling technological progress with global legal realities.

## **3. Historical Development of International Law and Emerging Technologies:**

Throughout history, the relationship between international law and technology has developed in a reactive manner. For example, Scharre's *Army of None* published in 2018 chronicles the journey

of autonomous weapons and the delayed emergence of a legal reaction. Horowitz The Ethics and Morality of Robotic Warfare published in 2016 echoes the existentialist crisis that resulted from the lack of a legal framework at the right time (Scharre, 2018). This can offer a historical background of how things have worked out so far, and the historical occurrences that have informed current thinking of AI and autonomous weapons.

*Evolution of AI and Autonomous Weapons Technology:* The technological environment is constantly developing, presenting new risks to society related to AI and autonomous weapons. The social aftermaths of robotics are thoroughly described in Robot Ethics by Lin, Bekey, and Abney 2012 , which serves as a basic reference for AI ethics. There, it is revealed that the potential of AI advancement necessitates the reconsideration of the existing legal and ethical boundaries . At the same time, the same topic is expanded and complemented in The Responsibilities of Online Service Providers by Taddeo and Floridi 2018(Horowitz, 2016) .

*International Responses and Regulatory Frameworks:* Various international responses to AI and autonomous weapons were recorded, and a range of regulatory perspective was observed. While the initiative to implement a comprehensive legal framework regulating AI, exemplified by proposed Artificial Intelligence Act by the European Commission , can be described as a successful case, reports indicating the involvement of autonomous weapons platforms in military operations, as those prepared and officially published by the United Nations and the International Committee of the Red Cross , demonstrate the disagreement that currently exists between different states and organizations (O'Connell, 2017).

*Ethical and Moral Considerations:* The discussion on AI and autonomous weapons undoubtedly has a strong ethical underpinning. Asaro emphasizes the problem of dehumanization of lethal-sensitive decision-making in weapon systems, making an important statement on the intrinsic morality of humans being the only kill in the warfare project. Meanwhile, fabulous statement calls for a ban on lethal autonomous targeting after outlining the potential risk of warfare if the field weapon system deployment is subject to unrestricted use due to ethical issues and criticality.

*Technological Divide and Equity Issues:* The issue of a technological divide and equity is another sensitive matter discussed within the context of AI and autonomous weapons. For example, Marchant, Allenby, and Arkin underline the problem of technological inequity between states, and while covering autonomous military robots, it is explicitly discussed that some countries can achieve a higher level of technological development. Allen and Chan also mention a similar divide, emphasizing that countries differ in their technological capabilities.

#### 4. Stakeholder Analysis:

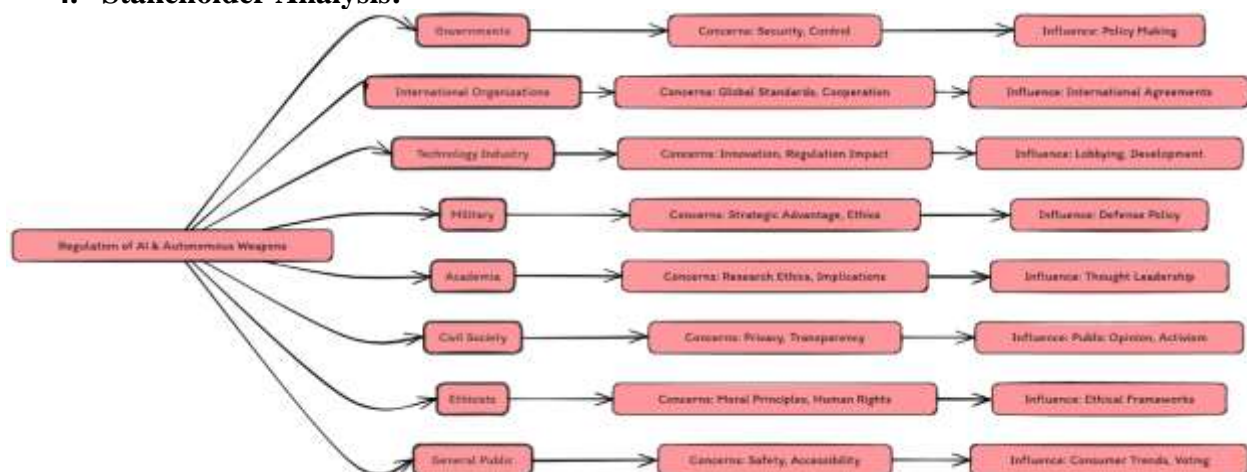


Figure 01: own extract

A stakeholder analysis in the context of international law's strict national measures to regulate the implementation and use of new technologies, including artificial intelligence and autonomous weapons, identifies a variety of concerned sides, each such of which has its own intention, interest, and power position. Such understanding helps to create a reasonable and justified system of approaches.

*Governments and State Actors:* The primary stakeholders are national governments. Governments are responsible for establishing and implementing relevant policies and laws. Governments hold divergent views with some arguing that strict guidelines should be adopted to govern the use of AI and autonomous weapons. The divergent concerns are premised on the violation of ethics and increased insecurity. On the other hand, other governments argue that increased technological advances are key aspects of national security and economic advancement. The difference is boosted by the varied policies of leading countries such as the US, the EU and China. Therefore, the stakeholders are:

*International Organizations:* Some of the critical entities involved in shaping the international discourse include the United Nations, International Committee of the Red Cross and other regional bodies. As a matter of fact, the UN has provided a forum for discussion about outlawing or regulating autonomous weapons (Lin etl, 2012). Most of these institutions build consensus and help in the creation of treaties and agreements.

*Technology Industry and Private Sector:* Companies developing AI and autonomous technology are key stakeholders. Their motivations are often driven by market opportunities and innovation potential. The private sector's role in research and development is crucial but also raises concerns about profit motives overriding ethical considerations.

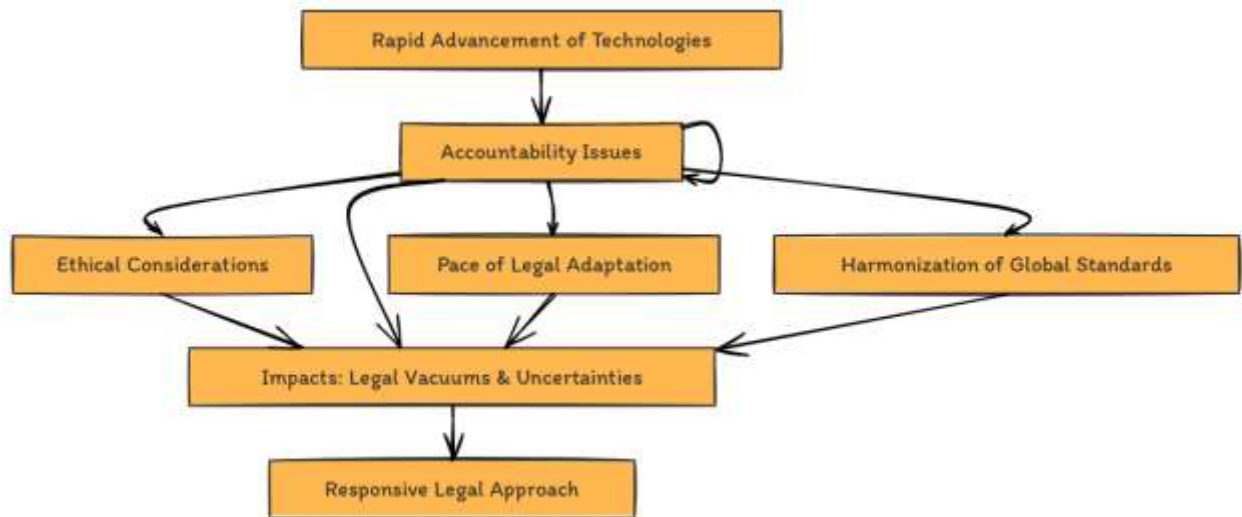
*Military and Defense Sector:* Militarizes and defense contractors are the main users of autonomous weapons. They have core concerns on the development and implementation of this tool. The military perspective focuses on AI and how autonomous systems give a tactical and strategic advantage. There is a growing trend of common interest about the capabilities of these weapons when deployed. Academic and research institution could be other stakeholders. Researchers and academics help bridge the gap in the technical and ethical and legal analysis of other scholars. Their contribution shapes the policy debate and provides a glimpse of what happens with AI and the autonomous weapons.

*Civil Society and Advocacy Groups:* Non-governmental organizations (NGOs), advocacy groups, and think tanks play a vital role in raising public awareness and influencing policy through advocacy and lobbying. Many such groups campaign for stringent regulation of AI and autonomous weapons to protect human rights and prevent potential misuse.

*Ethicists and Legal Experts:* These stakeholders are concerned with the ethical and legal implications of AI and autonomous weapons. They focus on issues like moral responsibility, accountability, and the impact of these technologies on human rights and international humanitarian law.

*General Public:* Furthermore, the broader community's opinion and support level for AI and autonomous weapons Likely to add the conversation as its position on the issue may inform the policy. Therefore, the level of awareness or understanding would also affect the input. In total, the categorization of all stakeholder types and the level of interrelation between them underscore the complexity of the issue. Therefore, an efficient international regulatory framework should consider the multiple perspectives and stakeholders' needs and balance the push for innovation and development in the area with ethical considerations and moral standards, both national and global safety and human rights protection.

## 5. Challenges in International Law



**Figure 02: own extract**

Despite its wide application potential, the realm of international law is, if anything, in a dire need to meet the challenges in regulating artificial intelligence and autonomous weapons. These challenges are caused by several interrelated factors: the specifics of these technologies, the speed of their development, and the general complexity of international regulation. One of the most important is the main ones – the speed of their creation and entry into various sectors and industries. Indeed, these technologies are developing much faster than traditional law is changing and stabilizing (Taddeo and Floridi, 2018). By the time the appropriate legal framework is created, many cases of the problems that need to be addressed have already occurred. The temporal gap between the time of the events and the moment of enacting international law makes it almost impossible for it to provide an appropriate and timely response. Another one is the very nature of these technologies as global phenomena. They were not invented in one country and are not used only there. They actually nullify the traditional legal principles of statehood and territoriality. However, the complexity of reaching a global consensus and the high variety of the world's existing legal systems make it incredibly difficult to achieve even a basic consensus on these issues. The very nature of these technologies as new, global, inherently problems. There are various ethical and moral problems, especially with autonomous weapons. The issue of determining responsibility in the use of such weapons in warfare, for example, is very complicated in the current legal system. It complicates the issue of eventually granting machines the right and ability to make a “life and death” choice. The difficulty preventing the dual use problematic aspects of these technologies makes it very hard. While these technologies have great potential to be used for the benefit of society, they can be used by terrorists in warfare and lead to massive privacy violations and state tyranny. It means that international law and policy must not only increase beneficial production but also limit and scientifically and ethically measure harmful use. Finally, there is the issue of digital inequality and poor citizens and states plummeting more into digitalization's. It means the development of new legal solutions to promote mass international use and development of these technologies.

## 6. Opportunities Through Legal Frameworks

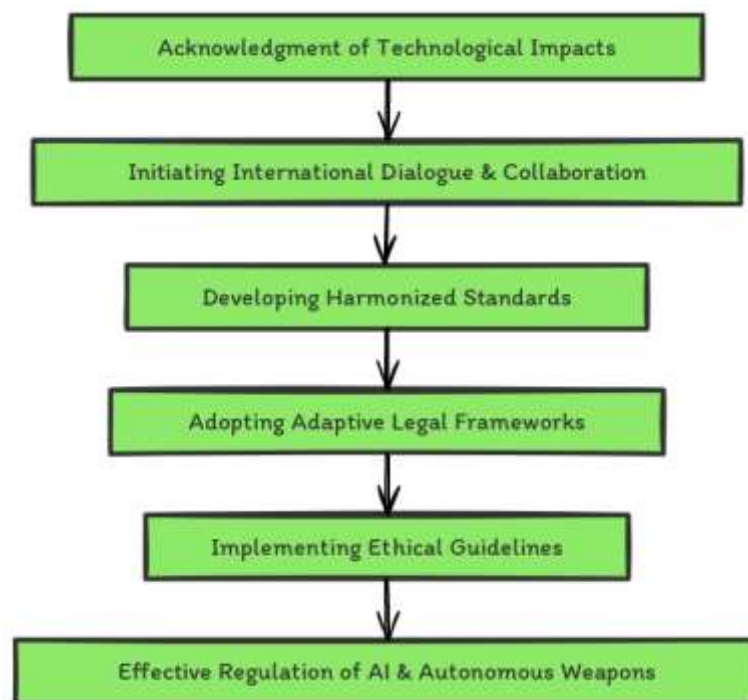
At the same time, in the context of the threats and challenges brought forth by the appearance of emerging technologies such as artificial intelligence and autonomous weapons , international law

also represents significant opportunities. Those opportunities refer to the potential of shaping a global legal framework that is not only responsive to the current technology environment but is also prospective, effectively balancing innovation, ethical implications, and harmony in international peace and security . Firstly, international law represents an opportunity in setting globalizing standards and norms( United Nations, 2013). In other words, international law can ensure clearness and consistency in trying to regulate the development and application of AI and autonomous weapons. This global harmonization can prevent the emergence of a fragmented framework and multiple loopholes and inconsistencies jeopardizing efficient international governance over these technologies . Secondly, the move to create international treaties and conventions designed to regulate AI and autonomous weapons presents an opportunity. In this case, international law can create opportunities for cohesion and collaboration, as states would have to share best practices or commonly agreed upon cases of ensuring ethical and responsible use, and transparency and accountability (Finn and Scheding, 2010) . Additionally, international law can promote inclusivity and fair distribution of these technologies' beneficial impact for the states of the world. Such an approach can empower international law to diminish the risk of a technology divide that would only benefit a few states . Such equality is crucial for international development and narrowing the gap between nations. Lastly, international law an opportunity in the domain of ethical framework setting. While international law would not be able to regulate the moral implications of the development and use of artificial intelligence and autonomous weapons, it can define a zone in which those implications will be discussed and regulated. In other words, international law can provide input into the conversation about moral and ethical aspects but will not be able to make explicit decisions over the topic. Finally, the dynamic nature of artificial intelligence and autonomous weapons also represents an opportunity for international law to evolve into a more responsive, flexible, and diagnosable systems. New legal norms, writings, and attitudes can be developed in new circumstances, and new principles can be pioneered, as well. Finally, the involvement of international law in the regulation of emerging technologies may ignite the increase of interdisciplinary cooperation. Thus, legal practitioners, technologists, ethicists, and policy-makers would pool their efforts to tackle the complex array of issues related to AI and autonomous weapons, which would facilitate the creation of nuanced and comprehensive solutions. In conclusion, although international law confronts critical barriers in the face of emerging technologies, the field also faces colossal opportunities to positively and proactively contribute to the new technological landscape. The open question is whether these opportunities will be embraced and whether international law will become an instrument of justice, equality, and human dignity in the world of technology.

**Case Studies and Comparative Analysis.** The exploration of case studies and a comparative analysis shed light on how international law currently engages with the two focal emerging technologies, artificial intelligence and autonomous weapons . These real-life illustrations reveal the diversity of approaches and outcomes in the regulation and mainstreaming of the emerging technologies, thus providing valuable lessons and benchmarks for potential future regulatory frameworks. One of the enticing case studies is the EU's decision to embody AI regulation. The EU stands out among other global players in actively addressing ai and its legal and ethical dimensions, illustrated by the proposed Artificial Intelligence Act (Asaro, 2012) . It aims to develop a coherent AI regulatory framework in the EU and introduces a risk-based approach, under which AI systems are categorized according to their potential risk to human rights and safety. Importantly, it balances innovation with a distinction between systems posing high risk and those that do not, setting an ostensibly effective precedent for other international and regional due to follow .

Compared to the previously discussed case studies, the U.S.'s approach to AI implementation in both defense and civilian spheres sheds light on a technology-driven rather than current-centered legal framework. On the one hand, the U.S. Department of Defense was the first to introduce ethical principles for AI use in war, thus pioneering such a move (Sharkey, 2010). On the other hand, the U.S. merely emphasizes its dominance in autonomous weapons instead of supporting international legislation on the matter; as presented, several international groups and some states demand a global ban on such weapons. Also, international cooperation in AI and robotics, for instance, in International Robotics and AI Law Society, can facilitate cross-border discussion between experts and policymakers, thereby promoting mutual understanding and development of legal norms. This seems essential with regard to the transnational nature of AI and, especially, autonomous weapons. Overall, the comparison of the abovementioned case studies backs a variety of possible approaches to the regulation of the fields in question. While certain countries and territories may pursue an all-inclusive legal agenda, others will just boost their technological advancement while leaving national history (Marchant et al, 2011). The latter will be apparent amid sovereign countries and is triggered by the developmental stage. These studies, along with the comparative analysis, feature the problem and possible ways of its resolution. Additionally, they form a base for a comprehensive understanding of international law on the issue and create a groundwork for the development of novel active approaches and legal systems.

## 7. Future Directions and Recommendation



**Figure 03: own extract**

In contemplating the future directions and formulating recommendations for the regulation of emerging technologies such as artificial intelligence (AI) and autonomous weapons through international law, several key areas stand out as pivotal.

1. **Harmonization of International Regulations:** it is paramount to also develop and adopt international regulations and standards about AI and autonomous weapons. This, ideally, means reaching a consistent and global agreement regarding definitions, ethical issues and

limitations, enforcement, and compliance methodology. The development process should be based on how the integrated law would be applied and enforceable globally.

2. **Adaptive and Forward-Looking Legal Frameworks:** Similarly, international should also develop the capacity to adapt to future technological innovations. Thus, it is also critical to developing a responsive legal framework to accommodate the anticipated immediate amendments. Moreover, systematic reviews and amendments as a result of emerging and widespread technological advancements will also be vital
3. **Ethical Guidelines and Human Rights Protections:** Finally, ethical standards consistent with international human rights law should also be developed and enforced. These standards would explicitly analyze such technologies in an ethical manner within the scope of the responsibilities, accountability, transparency, and dignity, and human rights.
4. **Encouraging International Collaboration and Dialogue:** First and foremost, it appears necessary to reinforce international cooperation to implement a holistic approach to the regulation of new technologies. It should involve continued collaboration between the abovementioned states, international organizations, and industry and academic stakeholders and civil society to share knowledge data, research findings, and best practices.
5. **Capacity Building and Knowledge Sharing:** Secondly, the ability of states, especially those with limited resources, to engage in the regulation of autonomous weapons deployment Ai in their development, may need to be strengthen. This could involve capacity building to share expertise, expert assistance funds, and ensure every country would have a say in international negotiations or the decision-making process.
6. **Public Engagement and Transparency:** Additionally, public engagement in discussions on AI and autonomous weapons should be enhanced. This will increase transparency and public understanding of the issues. This can be done through consultations with civil society through educational initiatives and inclusive policymaking.
7. **Monitoring and Enforcement Mechanisms:** finally, it is vital to ensure effective monitoring and enforcement of international regulations. This will increase transparency and public understanding of the issues. It may involve creating international bodies or strengthening the powers of existing entities so that they can enforce AI and autonomous weapons-related laws or guidelines.
8. **Research and Development Focused on Ethical Considerations:** Encouraging research and Promote research and development into AI and autonomy with a focus on the ethical considerations and societal impacts: one way of doing so is by endorsing projects in which these technologies are developed with utmost attention to their safe, responsible use. Thus framed, international legislature can better negotiate its way through the complex world of developmental technologies, thereby promoting innovation while still ensuring that ethics and human rights are adequately maintained.

## 8. CONCLUSION:

As the brief exploration of challenges and opportunities associated with the regulation of artificial intelligence and autonomous weapons through the medium of international law is coming to an end, it is possible to note several vital insights. The journey across a vastly complex, multidimensional landscape of modern issues, relationships, and problems was full of nuances and intricacies. The challenges artificial intelligence and autonomous weapons present to international law are numerous, and they are also immense. The rapid pace of development, which has never been seen in the history of humankind; international, supra-national transfers, ethical dilemmas,

problems of accountability and transparency, and the danger of a planetary technological gap: all these awaited everyone who tried to explore, understand, and solve the major complexity. These troubles are not intractable, and the international community, which includes states, international bodies, the industry, and the scientists, and civil society, is capable of facing them. More importantly, there are many opportunities open to effective regulation. The path of creating effective, dynamic, adaptable legal framework and arrangement of international cooperation provides hope for a balanced control of AI and autonomous weapons. These hopes are grounded on the idea of ethical standards, whether generally accepted or tailored in the form of human rights standards, and they require open discussions and capacity building. Case studies and comparison evidence display the variety of current standards, the aspiration of various actors and levels to achieve goals, and, finally, the paths of others that are making either big mistakes or feel too comfortable under current conditions. Thus, the recommendations are clear: the international law should be dynamic, future-oriented, and cooperative. The law should by necessity set up as a form of such evaluation, informed by technology and responsive to ethical considerations, as well as the conceptualization of what kind of society we want to have. In conclusion, artificial intelligence and autonomous weapons are one of the most significant legal and ethical challenges to the world today. The pathway may be complex, and many dangers lay in its way, but the possibility to make the world a safer, more ethical place is at hand. The importance of the international community cannot be understated – the choice to walk further along the path of technological space exploration should be made responsibly, and human international law is the only system that can ensure safety for the humanity as we embark on this fantastic journey.

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