ACTA UNIVERSITATIS LODZIENSIS

FOLIA IURIDICA 106, 2024

https://doi.org/10.18778/0208-6069.106.01



Oleksandr Sotula*



iD https://orcid.org/0000-0003-4633-4500

THE EVOLUTION OF MODERN WARFARE THROUGH THE PRISM OF THE RUSSIAN-UKRAINIAN CONFLICT: A COMPREHENSIVE ANALYSIS

1. INTRODUCTION

In the era of rapid technological change and globalisation, war is being transformed, moving beyond traditional understandings and incorporating a complex interplay of technology, geopolitics, and international law. This creates the need for a deep and comprehensive analysis of modern warfare, using the Russian-Ukrainian conflict as an illustrative example to illuminate the multifaceted nature of modern military conflicts. In the context of such research, special attention should be paid to the transformative role of technological advances that radically change the nature of warfare. The integration of artificial intelligence into military decision-making, the emergence of cyber warfare, and the role of telecommunications in conflict situations all present new challenges that require a scientific and legal analysis. An important aspect to explore is the dual nature of telecommunications technologies, which can be used both to maintain peace and security as well as to wage war. This creates a need to develop comprehensive legal mechanisms to regulate their use in conflict zones. The issues of responsibility and complicity of arms exporting countries in violations of humanitarian law as well as the need to create reliable international mechanisms for regulating arms exports are both awaiting resolution.

This diversity of new emerging challenges highlights the need for interdisciplinary approaches in understanding and addressing the complexities of modern warfare, to bridge the gap between theory and practice, and to provide valuable information for scholars, policymakers, and practitioners in the field.

^{*} Kherson State University, sotula64@gmail.com



[©] by the author, licensee University of Lodz - Lodz University Press, Lodz, Poland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution license CC-BY-NC-ND 4.0 (https://creativecommons.org/licenses/by-nc-nd/4.0) Received: 29.01.2024. Accepted: 29.01.2024.

2. THE EVOLUTION OF MILITARY CONFLICTS - TECHNOLOGICAL ADVANCES AND ETHICAL SILEMMAS

The trajectory of warfare throughout human history is marked by a continuous evolution, shaped by the interplay of technological innovation and strategic adaptation. From the rudimentary weapons of early civilisations to the sophisticated arsenals of the modern era, the tools and tactics of war have undergone profound transformations. This progression reflects not only advancements in technology, but also shifts in societal norms and the geopolitical landscape. The modern battlefield has transcended physical domains, extending into the digital expanse of cyberspace, thus symbolising the fusion of technology with conventional warfare modalities. The ongoing Russian-Ukrainian conflict epitomises this evolution, showcasing a blend of traditional military engagements with the emergent domain of cyber operations.

The transformation of air and land warfare tactics in recent decades has been particularly significant. The development and deployment of advanced targeting technologies has introduced unprecedented precision and strategic complexity to military operations. Modern combat strategies emphasise not only the magnitude of force, but also the accuracy with which it is applied. The capacity to pinpoint specific targets with minimal collateral damage is a critical aspect of contemporary military doctrine, reflecting a paradigm shift towards more discriminate and proportionate use of force.

However, the integration of such technologies into the arsenal of modern militaries is not without its challenges and ethical quandaries. Autonomous weapon systems, long-range precision-guided munitions, and unmanned aerial vehicles (drones) have revolutionised the conduct of warfare, yet they also provoke significant debate regarding the locus of moral and legal responsibility. The attribution of blame in instances of civilian harm caused by these systems is complex, involving a multitude of actors, including operators, military commanders, state authorities, and defence manufacturers. These issues underscore the ethical and legal implications inherent in the use of advanced weapon systems and the need for rigorous scrutiny and accountability mechanisms.

The role of artificial intelligence (AI) in military decision-making processes represents another frontier in the evolution of warfare. The potential of AI to further revolutionise military operations is immense, with systems capable of executing tasks with speed and efficiency beyond human capabilities. However, the delegation of critical decisions to AI systems, particularly those involving life and death, raises profound ethical and legal questions. The capacity of AI to adhere to the principles of distinction, proportionality, and necessity, as mandated by international law, remains a subject of intense debate. The challenges presented

by AI in warfare are multifaceted, encompassing technical, ethical, and legal dimensions that demand a comprehensive analysis and policy responses.

The narrative of modern warfare expands further with the advent of cyber warfare. The Russian-Ukrainian conflict has been marked by the involvement of "civilian hackers", a phenomenon that illustrates the changing nature of combatants and the battlefield. Cyber warfare, while devoid of direct physical violence, can inflict substantial disruption and strategic damage. The ability to undermine critical infrastructure, disrupt communications, exfiltrate sensitive data, and propagate disinformation through cyber means has profound implications for national security and the stability of states.

The legal status of civilian hackers engaged in cyber operations during armed conflicts presents a legal conundrum within the framework of International Humanitarian Law (IHL). Traditional laws of armed conflict are challenged by the unconventional nature of cyber warfare, highlighting the necessity for legal frameworks to evolve in response to these emerging modalities of conflict. The determination of the combatant status of civilian hackers, their potential targeting, and the applicability of IHL principles to cyber operations are areas that require rigorous legal analysis and the development of normative guidelines.

The evolution of warfare, characterised by the integration of advanced technologies and the emergence of cyber warfare, presents a complex narrative of adaptation and ethical challenges. The Russian-Ukrainian conflict, with its amalgamation of conventional and novel forms of warfare, underscores the multifaceted and dynamic nature of contemporary conflicts.

3. THE ROLE OF TELECOMMUNICATIONS IN CONFLICT AND THE PROTECTION OF CIVILIANS – AN IN-DEPTH ANALYSIS

In the intricate structure of modern conflicts, telecommunications have emerged as a pivotal force, fundamentally altering the conduct and strategic underpinnings of warfare. The introduction of satellite Internet services by entities such as Starlink has redefined the operational landscape, transforming these companies from mere civilian service providers to critical actors in the theatre of war. These services have become indispensable for maintaining real-time communication, enabling strategic coordination, and ensuring access to essential information, even in the most austere environments.

The dual-use nature of telecommunication technologies in conflict zones presents a paradoxical scenario. While they are instrumental in facilitating humanitarian assistance, public health initiatives, and crisis communication, they simultaneously offer a platform for exploitation by combatants. The potential for these technologies to be used for propaganda dissemination, cyber warfare, and

the coordination of military operations introduces a complex array of ethical and legal challenges that must be navigated with care.

The rapid advancement of telecommunications technologies has outpaced the development of corresponding legal frameworks, resulting in a regulatory lacuna that poses significant risks for misuse and abuse in conflict settings. This gap underscores the urgent need for the establishment and enforcement of comprehensive legal mechanisms that can effectively regulate the use of telecommunications in accordance with international humanitarian law and other pertinent legal instruments.

The principle of civilian protection, enshrined in IHL, intersects with the use of telecommunications in conflict zones, highlighting the heightened vulnerability of civilian populations in the digital era. The indiscriminate nature of cyber warfare, the potential for disinformation to exacerbate hostilities, and the targeting of communication infrastructure all pose grave threats to civilian safety and security.

To address these unique challenges, there is a pressing need for a thorough evaluation and potential reform of legal mechanisms at both the national and international levels. Such reforms must encompass not only the protection of civilians from physical harm, but also the safeguarding of data privacy, the prevention of cyber-attacks on civilian infrastructure, and the containment of the spread of harmful misinformation.

The role of international organisations, such as the International Telecommunication Union (ITU) and the International Committee of the Red Cross (ICRC), is increasingly critical in this context. These bodies must mediate between the technological capabilities of state and non-state actors and the existing legal frameworks that govern armed conflicts. Collaborative efforts are required to develop and enforce guidelines that ensure the responsible and ethical use of telecommunication technologies in conflict situations.

Furthermore, the integration of telecommunications into conflict scenarios necessitates a re-evaluation of core principles such as neutrality, distinction, and proportionality within the realm of cyber operations. The legal definitions of combatants and military objectives must evolve to reflect the realities of digital warfare, with a focus on ensuring that civilians and their data are protected from hostilities to the maximum extent feasible.

The role of telecommunications in conflict and the imperative of civilian protection are inextricably linked, forming a complex and evolving challenge that must be addressed with rigour and foresight. The Russian-Ukrainian conflict serves as a poignant reminder of the necessity for effective legal protections for civilians in an age where digital technologies play a central role in warfare. As the discourse progresses, the continuous development and stringent application of legal frameworks governing the use of telecommunications in armed conflicts will be crucial in safeguarding civilian lives and upholding the sanctity of international humanitarian principles.

4. EXPORTING WEAPONS – VIOLATIONS OF INTERNATIONAL HUMANITARIAN LAW AND LIABILITY

As we delve further into the complexities of modern warfare, one aspect arises with a particularly profound resonance, namely the role of arms exports in conflicts. The act of exporting arms, on the surface, may appear as a detached endeavour, confined to the realm of economic transactions and strategic diplomacy. However, its implications seep into the harsh realities of the battlefield, often contributing, albeit indirectly, to violations of IHL. The Russian aggression against Ukraine serves as a striking example of this indirect yet consequential relationship.

Arms exports play a pivotal role in shaping the dynamics of a conflict. The provision of conventional weapons or small arms and light weapons can significantly alter the balance of power, escalate the intensity of violence, and, in certain instances, prolong the duration of the conflict. This, in turn, can lead to a heightened number of civilian casualties and increased human suffering. Thus, the act of arms export transcends the domain of commerce and strategic alliances, intertwining with the ethical, legal, and humanitarian dimensions of warfare.

The involvement of arms-exporting nations in IHL violations perpetrated with their supplied weapons raises potent questions about responsibility and complicity. When does an act of arms export become an act of aiding and abetting war crimes? How do we delineate the boundaries of accountability under international law? Do arms-exporting nations bear any moral obligation towards the victims of the conflict? These questions challenge the traditional notions of accountability and complicity, highlighting the ambiguities in the existing legal frameworks.

The existing arms control treaties, such as the Arms Trade Treaty, aim to regulate the global trade of conventional arms and prevent their diversion to illegal use. However, their effectiveness is often compromised by inconsistent implementation, the lack of transparency, and divergence in interpreting treaty provisions. The lacunae in these regulatory mechanisms underscore the urgent need for a more robust and comprehensive international mechanism to oversee arms exports, one that ensures stricter compliance, enhances transparency, and institutes an effective system of accountability for violations.

This exploration into the realm of arms exports dovetails into the broader, more complex issue of accountability for crimes against civilians. The establishment of accountability is not merely a legal obligation; it represents a cornerstone of justice, a fundamental prerequisite for reparation and closure for victims, and a powerful deterrent against future crimes. It reinforces the rule of law, upholds the principles enshrined in IHL, and asserts the fundamental human rights of individuals, particularly in situations of armed conflicts.

However, the pursuit of accountability is often fraught with formidable challenges. Jurisdictional constraints, political considerations, evidentiary difficulties, and the intricate nature of international law often pose significant barriers to the prosecution of war crimes and crimes against humanity. The Russian-Ukrainian conflict, which has witnessed numerous crimes against civilians, underscores these challenges. Amid these hurdles, the clarion call for justice from the international community remains resolute, underscoring the necessity of addressing these crimes and holding the perpetrators to account.

It is important to recognise that the impacts of warfare are not confined to the immediate parties involved. The reverberations of conflicts echo across the geopolitical landscape, influencing regional and global power dynamics, altering alliances, and reshaping international relations.

5. THE GEOPOLITICAL IMPLICATIONS AND THE ROLE OF NEUTRAL STATES IN CONTEMPORARY CONFLICT DYNAMICS

The ongoing conflict between Russia and Ukraine has precipitated a seismic shift in the geopolitical landscape, with implications that ripple across the international system. The conflict has not only redefined the power dynamics within the Eastern European region, but also has had a profound impact on global strategic alliances, economic networks, and the architecture of international security. Ukraine's accelerated integration with the European Union is indicative of a broader geopolitical realignment, potentially signifying a substantial shift in the regional balance of power and the strategic calculus of nations within and beyond the vicinity.

The European Union's imposition of sanctions on Russia represents a salient example of the intricate nexus between international law and geopolitical strategy. These sanctions, while serving as instruments of foreign policy aimed at inducing behavioural change in the target state, also have broader implications. They affect not only the economies of the imposing states but also the global economic system, raising questions about the long-term ramifications of such punitive measures on international trade, energy security, and diplomatic relations.

In this complex geopolitical milieu, the role of neutral states becomes increasingly salient. Neutral states, guided by historical precedents such as the Alabama Claims, have a significant role in the management of international conflicts and the promotion of adherence to international law. Their position, however, is fraught with inherent challenges as they strive to balance their obligations under the law of neutrality with the moral imperatives of the contemporary international order.

The principle of non-interference, a fundamental tenet of neutrality, requires these states to abstain from actions that could be perceived as favouring any party to the conflict. Yet, the imperative to uphold international legal standards, particularly those pertaining to human rights and humanitarian norms, may compel neutral states to adopt positions that could be seen as compromising their neutral status.

The traditional concept of neutrality, as codified in instruments such as the Hague Conventions, is increasingly challenged by the complexities of modern warfare, which often involves non-state actors, cyber operations, and other asymmetric tactics. Neutral states are thus tasked with interpreting and applying these legal instruments within the context of a rapidly evolving international landscape, ensuring that their policies do not inadvertently perpetuate conflict or contravene the principles of international law.

Furthermore, neutral states must navigate the intricacies of globalisation and the interconnectedness of the global economy. Economic sanctions, while targeted, can have unintended consequences for neutral states, compelling them to reconcile their commitment to neutrality with the realities of economic interdependence. Additionally, transnational challenges such as mass migration, resulting from conflicts, add layers of complexity to the responsibilities of neutral states, necessitating nuanced policy responses that reconcile humanitarian concerns with the imperatives of state sovereignty and security.

The geopolitical implications of the Russian-Ukrainian conflict and the intricate role of neutral states within this context underscore the complex interplay of international relations, law, and politics. As neutral states navigate their strategic choices, their decisions bear significant weight on the trajectory of the conflict and the broader international order.

6. CONCLUSION

In conclusion, the Russian-Ukrainian conflict presents a complex, interwoven narrative that spans multiple disciplines and perspectives. The evolution of warfare, the rise of cyber warfare, the indirect violations of International Humanitarian Law through arms exports, the quest for accountability, the geopolitical implications, the role of neutral states, the unexpected role of telecommunications, and the protection of civilians – these are the threads that make up the intricate tapestry of modern conflicts. By delving deeper into each thread, we gain a more comprehensive understanding of the multifaceted nature of contemporary conflicts, underscoring the critical need for interdisciplinary approaches in navigating and addressing these complexities.