

CYBER SECURITY IN THE AGE OF ARTIFICIAL INTELLIGENCE AND AUTONOMOUS WEAPONS

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Edited by Mehmet Emin Erendor, *Cyber Security in the Age of Artificial Intelligence and Autonomous Weapons* (CRC Press: Boca Raton, 2025, 1st Edition), 216 Pages, ISBN: 978-1-032-57939-9 (hbk), ISBN: 978-1-032-57938-2 (pbk), ISBN: 978-1-003-44170-0 (ebk), DOI: 10.1201/9781003441700

Declaration*

The work titled "Cyber Security in the Age of Artificial Intelligence and Autonomous Weapons" is an academic study that aims to examine the concepts of artificial intelligence (AI) and autonomous weapon systems, two critical dimensions that often remain in the background of the field of cyber security from a distinct perspective. While evaluating these phenomena through an interdisciplinary approach, the book aims to achieve an international character by incorporating contributions from academics from various countries and geographic regions. The first edition of the work was published by CRC Press in 2025. The book's editor, Mehmet Emin Erendor, is an academic whose work is centered on the field of International Relations; his research interests include cyber security, terrorism, the Turkic world, Turkish foreign policy, and international organizations.

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General Framework Of The Study

This study primarily employs an interdisciplinary approach to address the impacts of artificial intelligence (AI), autonomous weapon systems, cyber warfare, intelligence technologies, and new modes of warfare on international security, law, and ethics. The book does not limit itself to explaining technological advancements; rather, it aims to discuss how AI is transforming the nature of warfare and redefining the role of humans within it.

The compilation of chapters by various authors provides the work with a rich and multidimensional content, allowing for a comprehensive evaluation of the subject from

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* In this study, artificial intelligence was used solely to assist with language editing and the refinement of writing. The research and analysis were conducted entirely by the author, and she assumes full responsibility for the content of this work.



diverse perspectives. One of the work's prominent arguments is the analysis of the transformation created by AI technologies in the security and defense sectors. It reveals that the wars of the future will be shaped not merely by human will, physical force, and traditional military capacity, but also by data, algorithms, autonomous systems, and digital infrastructures. In this context, the study evaluates the use of AI in the military sphere not solely as a technological progression, but as a multidimensional security issue with strategic, legal, ethical, and political consequences.

Contributing significantly to the literature, the work offers the reader both a critical perspective and promising suggestions on how technology can be utilized in the interest of the public. It contains important implications for professionals working in public institutions, law enforcement, and the technology sector, as well as for academics and students researching international relations, security studies, and law. The study comprehensively addresses how AI-supported autonomous weapon systems shape the future of warfare, how these systems transform human decision-making processes, and the new dynamics they create for international security. By including examples related to current trends and technological developments, the work enriches the narrative, allowing for the evaluation of subjects based on concrete events.

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In the work, the ethical, legal, and accountability dimensions regarding the use of autonomous weapon systems are highlighted. The debates arising from the authority of machines to make decisions on the battlefield in terms of human rights, international humanitarian law, and the ethics of war are examined in detail. Furthermore, the role of AI in data management, algorithmic decision-making, threat analysis, and strategic planning is evaluated, emphasising that the wars of the future will be shaped by information, data, and technological superiority rather than just physical power and traditional military capacity.

Overall, the work demonstrates that AI and autonomous systems are transforming the understanding of security in international relations, reshaping the actors, methods, and decision-making mechanisms of war. Within this framework, the study provides a comprehensive and critical analysis of how the future security environment might evolve by evaluating the military advantages of AI alongside its ethical, legal, and strategic consequences.



Evaluation of The Study

When evaluated within its general framework, the work provides a robust and interdisciplinary contribution to security studies by demonstrating that AI and autonomous systems are transforming the nature of warfare. By addressing different fields such as cybersecurity, intelligence operations, data management, strategic planning, international law, and ethics within a common theoretical framework, the study shows that modern warfare is shaped not only in physical conflict zones but also in digital and algorithmic planes. In this regard, the work fills a significant gap in the literature by examining the phenomenon of AI, which is gaining increasing importance in security studies through a comprehensive perspective.

The chapters specifically dedicated to autonomous weapon systems, cyber warfare, and AI-supported intelligence mechanisms offer in-depth analyses of the future of warfare at both technical and conceptual levels. The work convincingly demonstrates that these technologies are not merely tools to increase military capacity; they have become fundamental elements that reshape decision-making processes, accountability relations, and the international security architecture. Furthermore, the emphasis on the role of AI in strategic planning and operational processes significantly enhances the study's analytical power.

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Moreover, the work does not settle for explaining the transformation of war solely through technological developments; it also comprehensively evaluates the ethical and legal dimensions. The problems arising from autonomous weapon systems regarding international humanitarian law, the ethics of war, and principles of accountability are addressed with a systematic approach. Thus, the study successfully merges technical analysis with normative evaluation.

Additionally, relating the approaches of classical war theorists, such as Clausewitz, to today's AI-based technological transformation increases the work's theoretical depth and contributes to the evaluation of war studies within a historical continuity. This approach establishes a meaningful bridge between classical security theories and contemporary technological developments, strengthening the conceptual richness of the study. In conclusion, the work is extremely valuable for its multidimensional approach to the transformation of war in the age of AI, its ability to bring different disciplines together within a common analytical framework, and its holistic evaluation of technical, strategic, legal, and ethical dimensions. In



this respect, the book not only makes a significant contribution to the existing academic literature but also provides a strong theoretical and analytical framework that can guide future security and war studies.

Conclusion

The issues addressed in this study artificial intelligence, autonomous weapon systems, cyber security, intelligence technologies, and ethical and legal debates offer a broad and multi-layered perspective on understanding the transformation of the contemporary international security environment. In this sense, the work provides an interdisciplinary analysis that goes beyond merely examining technological developments to encompass the political, legal, and ethical dimensions of war.

In this context, the book first provides a strong theoretical infrastructure for undergraduate and graduate students studying international relations, political science, security studies, and law. At the same time, for professionals working in military strategy, defense policy, cyber security, and intelligence, it serves as an important reference source for understanding the impacts of AI-based technological transformation on security policies. Furthermore, for researchers working on AI and data technologies, the work provides the opportunity to evaluate these technologies from a holistic perspective not just as engineering components, but as factors affecting international politics, security, law, and society. For academics, it serves as an important reference by encouraging interdisciplinary research, bringing together different theoretical approaches, and providing a comprehensive perspective on current security debates.

Ultimately, the work appeals to a wide readership in both theoretical and practical aspects; it stands out as a valuable reference for students, researchers, academics, and policymakers who wish to understand the transformation of the concept of security and war in the age of artificial intelligence. From a personal evaluation perspective, the work is highly eye-opening due to its comprehensive content and interdisciplinary approach. One of its strongest attributes is its treatment of AI's role in security not merely as a technological development but as a strategic element affecting the functioning of the international system and the security architecture. The sections regarding autonomous weapon systems, cyber warfare, and AI-supported intelligence technologies are both explanatory and thought-provoking for understanding current security debates. The authors' ability to link technological



developments with international relations theories, security policies, and strategic analyses increases the work's academic value. Moreover, the fact that ethical and legal dimensions are not overlooked comprehensively addressing the problems of accountability, human oversight, and international humanitarian law regarding autonomous systems gives the study a balanced and critical perspective. Overall, the work is a significant academic study that examines the multidimensional transformation of war and the understanding of security in the age of AI, successfully integrating theoretical and practical discussions. In this respect, the book can be considered a guiding reference for researchers, students, and practitioners who wish to understand the future security environment.

