Цзун Янань

Магистр

Казахский национальный университет Almaty, Kazakh

ДОКТРИНАЛЬНЫЙ АНАЛИЗ КИБЕРПРЕСТУПНОСТИ КАК ПРАВОВОГО ЯВЛЕНИЯ В СОВРЕМЕННОЙ ЮРИСПРУДЕНЦИИ

Аннотация: В данной статье проводится доктринальный анализ киберпреступности как правового явления в современной юриспруденции, подчеркиваются ее уникальные характеристики и вызовы, которые она бросает традиционным правовым системам. Киберпреступность, характеризующаяся технологической сложностью. транснациональным масштабом И юрисдикции, анонимностью, нарушает традиционные представления 0 ответственности юридической подотчетности. В исследовании И историческая рассматривается ЭВОЛЮЦИЯ правовых реакций на киберпреступность, философские и правовые последствия ее роста, а также необходимость адаптивных и гибких правовых систем. В статье также подчеркивается важность международного сотрудничества, технологической интеграции и междисциплинарных исследований для борьбы с возникающими киберугрозами. В заключение статья выступает единой за создание теоретической основы для будущего правового регулирования в цифровую эпоху.

Ключевые слова: Киберпреступность, Юриспруденция, Транснациональная Преступность, Юридическая Ответственность, Технологическая Интеграция

Zong Yanan

Master

Kazakh National University

Almaty, Kazakh

DOCTRINAL ANALYSIS OF CYBERCRIME AS A LEGAL PHENOMENON IN MODERN JURISPRUDENCE

"Мировая наука" №3 (96) 2025

science-j.com

Summary : This article provides a doctrinal analysis of cybercrime as a legal phenomenon in modern jurisprudence, emphasizing its unique characteristics and the challenges it poses to traditional legal frameworks. Cybercrime, characterized by its technological complexity, transnational scope, and anonymity, disrupts conventional notions of jurisdiction, responsibility, and legal accountability. The study explores the historical evolution of legal responses to cybercrime, the philosophical and legal implications of its rise, and the need for adaptive and flexible legal systems. It also highlights the importance of international cooperation, technological integration, and interdisciplinary research to address emerging cyber threats. The article concludes by advocating for a unified theoretical framework to guide future legal regulation in the digital age.

Keywords : Cybercrime , Jurisprudence , Transnational Crime , Legal Responsibility, Technological Integration

Introduction

The rapid advancement of digital technologies has fundamentally transformed the landscape of modern society, giving rise to new forms of criminal activity that transcend traditional boundaries. Cybercrime, as a pervasive and evolving legal phenomenon, poses unprecedented challenges to contemporary legal systems and jurisprudence. Its global scale, technological complexity, and transnational nature necessitate a profound re-examination of established legal principles and frameworks. The significance of this issue lies not only in its immediate societal impact but also in its profound implications for the theoretical foundations of law. Cybercrime disrupts conventional notions of jurisdiction, legal responsibility, and the very definition of criminal behavior, thereby demanding a jurisprudential perspective that can address these complexities.[1] This research seeks to fill a critical gap in legal theory by providing a systematic analysis of cybercrime as a distinct legal phenomenon, exploring its unique characteristics and the theoretical challenges it presents to modern jurisprudence.

The primary objective of this study is to analyze the legal nature of cybercrime

and its implications for the development of legal theory. By defining cybercrime within the context of modern jurisprudence, the research aims to uncover its essential features, such as its reliance on digital infrastructure, its transnational scope, and its capacity to exploit the anonymity afforded by cyberspace. These characteristics challenge traditional legal concepts, including the principles of territoriality, sovereignty, and individual accountability. Furthermore, the study examines how cybercrime forces a reevaluation of the relationship between law and technology, highlighting the need for legal systems to adapt to the dynamic and often unpredictable nature of digital environments. In doing so, the research contributes to a deeper understanding of the theoretical underpinnings of cybercrime and its role in shaping the future of legal regulation.

The relevance of this research is underscored by the increasing frequency and sophistication of cybercriminal activities, which have far-reaching consequences for individuals, businesses, and states. As cybercrime continues to evolve, it exposes the limitations of existing legal frameworks and calls for innovative theoretical approaches that can accommodate the unique challenges of the digital age. By addressing these issues, this study not only advances the academic discourse on cybercrime but also provides a foundation for the development of more effective legal responses. In this way, the research aligns with the broader goals of modern jurisprudence, which seeks to ensure that legal systems remain relevant and capable of addressing emerging societal challenges.

Theoretical Foundations of Cybercrime as a Legal Phenomenon

The theoretical exploration of cybercrime as a legal phenomenon requires a comprehensive understanding of its conceptual framework, historical evolution, and philosophical implications. At its core, cybercrime represents a distinct category of criminal activity that is intrinsically linked to the digital environment, distinguishing it from traditional crimes in both form and substance. The essence of cybercrime lies in its reliance on information and communication technologies, which enable perpetrators to operate across vast distances, often with a high degree of anonymity. This technological dimension not only redefines the methods of committing crimes

but also challenges the foundational principles of legal systems, which were primarily designed to address physical and geographically bounded actions. The transnational nature of cybercrime further complicates its legal characterization, as it transcends national borders and jurisdictional boundaries, creating significant obstacles for law enforcement and legal regulation. These multidimensional characteristicstechnological sophistication, transnational scope, and anonymity-collectively underscore the unique legal challenges posed by cybercrime and necessitate a reevaluation of traditional legal concepts. The historical development of legal responses to cybercrime reveals a dynamic interplay between technological advancements and the evolution of legal norms. In the early stages of the digital revolution, legal systems struggled to keep pace with the rapid proliferation of cybercriminal activities, often relying on analogies to existing laws to address new forms of wrongdoing. Over time, however, the inadequacy of such approaches became apparent, prompting the development of specialized legislation at both domestic and international levels. [2] Key milestones in this evolution include the adoption of the Budapest Convention on Cybercrime, which represents the first international treaty aimed at harmonizing legal responses to cybercrime, as well as the implementation of national cybersecurity strategies in various jurisdictions. Despite these efforts, the continuous advancement of technology outpaces the development of legal frameworks, creating a persistent gap between the capabilities of cybercriminals and the tools available to combat them. This historical perspective highlights the need for legal systems to adopt a more proactive and adaptive approach to regulating cybercrime, one that anticipates future technological developments and their potential implications for criminal behavior.

From a philosophical and legal standpoint, cybercrime poses profound challenges to traditional legal values and principles. Concepts such as justice, freedom, and security, which form the bedrock of legal systems, are redefined in the context of cyberspace. For instance, the principle of justice is tested by the difficulty of attributing responsibility in cases involving anonymous actors or complex networks of intermediaries. Similarly, the tension between cybersecurity and individual freedoms raises critical questions about the balance between state authority and personal privacy. The anonymity afforded by digital technologies further complicates the notion of legal subjectivity, as it becomes increasingly difficult to identify and hold accountable those who commit crimes in cyberspace. These challenges are not merely practical but also theoretical, as they force a reconsideration of the fundamental assumptions underlying legal systems. The concept of responsibility, for example, must be reimagined to account for the distributed and often collective nature of cybercriminal activities, where multiple actors may contribute to a single harmful outcome.

In addressing these issues, it becomes evident that cybercrime is not merely a new category of crime but a transformative force that reshapes the very foundations of legal theory. The technological, transnational, and anonymous aspects of cybercrime challenge the traditional paradigms of jurisdiction, responsibility, and enforcement, necessitating a paradigm shift in legal thinking. This shift requires a move away from rigid, territorially bounded legal frameworks toward more flexible and adaptive approaches that can accommodate the fluid and borderless nature of cyberspace. At the same time, it calls for a deeper engagement with the philosophical underpinnings of law, as the values and principles that guide legal systems must be reinterpreted in light of the unique characteristics of the digital age.

Cybercrime as a Challenge to Modern Legal Theory

The emergence of cybercrime as a pervasive and multifaceted phenomenon has fundamentally disrupted the traditional paradigms of legal theory, exposing significant gaps and limitations in the conceptual frameworks that underpin modern legal systems. One of the most pressing challenges lies in the definition and identification of the subject and object of cybercrime. Unlike traditional crimes, which typically involve identifiable actors and tangible objects, cybercrime operates within a digital environment characterized by anonymity, decentralization, and transnationality. The anonymity afforded by digital technologies complicates the process of identifying perpetrators, as cybercriminals often employ sophisticated methods to conceal their identities and locations. This anonymity not only hinders law enforcement efforts but also raises profound questions about the applicability of traditional legal concepts such as criminal intent and culpability. [3]Furthermore, the transnational nature of cybercrime exacerbates these difficulties, as perpetrators can operate across multiple jurisdictions, exploiting differences in legal systems and enforcement capabilities. This creates a fragmented legal landscape in which the attribution of responsibility becomes increasingly complex, challenging the foundational principles of legal accountability and justice.

Equally significant is the challenge posed by the evolving nature of the objects of cybercrime. Traditional legal systems are designed to address crimes involving physical assets, but cybercrime often targets virtual assets, data, and other intangible entities that do not fit neatly within existing legal categories. The legal status of these new forms of objects remains ambiguous, as they often exist in a realm that transcends traditional notions of property and ownership. For example, data breaches and the theft of digital information raise questions about the nature of data as a legal object and the extent to which it can be protected under existing property laws. Similarly, the rise of cryptocurrencies and other digital assets has introduced new complexities, as these assets operate outside the framework of traditional financial systems and challenge conventional understandings of value and exchange. These developments necessitate a rethinking of legal concepts to accommodate the unique characteristics of digital objects, ensuring that legal systems remain relevant and effective in the face of technological innovation.

The complexity of attributing legal responsibility in the digital environment further underscores the challenges posed by cybercrime to modern legal theory. In traditional criminal law, liability is typically assigned to individuals or entities based on their direct involvement in a wrongful act. However, the distributed and often collective nature of cybercriminal activities complicates this process, as multiple actors may contribute to a single harmful outcome without any one individual bearing full responsibility. For instance, cyberattacks often involve networks of hackers, intermediaries, and unwitting participants, making it difficult to determine who should be held accountable. This complexity is compounded by jurisdictional conflicts, as cybercrime frequently spans multiple legal jurisdictions, each with its own laws and enforcement mechanisms. [4]The lack of harmonization between these jurisdictions creates significant obstacles for international cooperation, undermining the effectiveness of legal responses to cybercrime. Addressing these challenges requires a more nuanced understanding of legal responsibility, one that recognizes the interconnected and collaborative nature of cybercriminal activities and develops mechanisms for attributing liability in a manner that is both fair and effective.

The impact of cybercrime on the principles of the rule of law is equally profound, as it forces a reevaluation of the balance between competing legal values. One of the most contentious issues is the tension between cybersecurity and individual privacy rights. Efforts to combat cybercrime often involve the collection and analysis of vast amounts of data, raising concerns about the potential for state overreach and the erosion of personal freedoms. This tension is particularly acute in democratic societies, where the protection of individual rights is a cornerstone of the legal system. Striking the right balance between these competing interests requires a careful and principled approach, one that ensures the effectiveness of cybersecurity measures while safeguarding fundamental rights. At the same time, the dynamic and rapidly evolving nature of cybercrime necessitates a degree of adaptability and flexibility in legal norms that is often at odds with the stability and predictability traditionally associated with the rule of law. Legal systems must therefore find ways to remain responsive to new threats and challenges without undermining their foundational principles.

In addressing these challenges, it becomes clear that cybercrime is not merely a new category of crime but a transformative force that reshapes the very foundations of legal theory. The anonymity and transnationality of cybercrime challenge traditional notions of jurisdiction and responsibility, while the evolving nature of digital objects necessitates a rethinking of legal concepts such as property and ownership. The complexity of attributing liability in the digital environment highlights the need for a more nuanced understanding of legal responsibility, one that recognizes the interconnected and collaborative nature of cybercriminal activities. At

the same time, the impact of cybercrime on the principles of the rule of law underscores the importance of balancing competing legal values and ensuring that legal systems remain adaptable and responsive to new challenges.

Prospects for the Development of Legal Regulation of Cybercrime

The evolving nature of cybercrime necessitates a forward-looking approach to legal regulation, one that not only addresses current challenges but also anticipates future developments in technology and criminal behavior. A critical aspect of this approach lies in enhancing international legal mechanisms to combat cybercrime. The transnational nature of cybercrime, which often involves perpetrators, victims, and infrastructure spread across multiple jurisdictions, underscores the limitations of national legal systems operating in isolation. Strengthening global cooperation and harmonizing cybercrime laws are essential steps toward creating a more effective and unified response. International organizations, such as the United Nations, INTERPOL, and the Council of Europe, play a pivotal role in facilitating this cooperation by providing platforms for dialogue, developing model legislation, and promoting best practices. [5]The Budapest Convention on Cybercrime, for instance, represents a significant milestone in international efforts to harmonize legal standards, yet its scope and adoption remain limited. Expanding the reach of such frameworks and ensuring their alignment with the diverse legal traditions and priorities of different states is crucial for building a cohesive global response to cybercrime. Moreover, the establishment of specialized international tribunals or dispute resolution mechanisms could help address jurisdictional conflicts and streamline the prosecution of transnational cybercriminals, thereby enhancing the effectiveness of legal regulation.

Integrating technological solutions into legal frameworks represents another promising avenue for addressing the challenges posed by cybercrime. The rapid advancement of technologies such as artificial intelligence (AI), blockchain, and machine learning offers new tools for detecting, preventing, and prosecuting cybercriminal activities. AI, for example, can be employed to analyze vast amounts of data in real time, identifying patterns and anomalies that may indicate criminal

behavior. Blockchain technology, with its emphasis on transparency and immutability, has the potential to enhance the security of digital transactions and reduce the risk of fraud. However, the adoption of these technologies also raises significant ethical and legal questions. The use of AI in law enforcement, for instance, must be carefully regulated to prevent biases and ensure respect for individual rights. Similarly, the decentralized nature of blockchain challenges traditional notions of legal authority and accountability, requiring innovative approaches to regulation. Balancing the benefits of technological solutions with the need to uphold ethical and legal standards is therefore a key challenge for the development of cybercrime regulation. This integration must be guided by a commitment to transparency, accountability, and the protection of fundamental rights, ensuring that technological advancements serve the broader goals of justice and the rule of law. The future of legal regulation in the context of cybercrime also depends on the development of a unified theoretical framework that can accommodate the unique characteristics of this phenomenon. Current legal theories, which are largely rooted in the physical and territorial paradigms of traditional crime, are ill-equipped to address the complexities of cybercrime. A new theoretical framework must account for the fluid and borderless nature of cyberspace, the anonymity of actors, and the evolving forms of digital objects. Such a framework should draw on interdisciplinary insights from fields such as computer science, sociology, and ethics, providing a holistic understanding of cybercrime and its implications for law. This theoretical foundation will not only inform the development of legal norms but also guide the interpretation and application of existing laws in the context of cybercrime. Furthermore, it will facilitate the identification of emerging forms of cybercrime, such as those involving artificial intelligence, the Internet of Things, and quantum computing, ensuring that legal systems remain proactive rather than reactive in their approach.

Conclusion

The theoretical analysis of cybercrime as a legal phenomenon reveals its profound and multifaceted impact on modern jurisprudence. Cybercrime, characterized by its technological sophistication, transnational scope, and anonymity, challenges the foundational principles of legal systems, necessitating a reevaluation of traditional concepts such as jurisdiction, responsibility, and the rule of law. The legal nature of cybercrime is inherently complex, as it operates within a digital environment that transcends physical and territorial boundaries, creating unique difficulties in defining its subjects and objects, attributing liability, and balancing competing legal values. These challenges underscore the inadequacy of existing legal frameworks and highlight the need for innovative approaches that can address the dynamic and evolving nature of cybercrime. The findings of this research emphasize that cybercrime is not merely a new category of crime but a transformative force that reshapes the very foundations of legal theory, requiring a paradigm shift in how legal systems conceptualize and respond to criminal behavior in the digital age.

The implications of these findings for legal theory and practice are significant. Legal systems must adapt to the complexities of cybercrime by developing more flexible and adaptive frameworks that can accommodate the fluid and borderless nature of cyberspace. This includes strengthening international cooperation to harmonize legal standards, integrating technological solutions into regulatory mechanisms, and rethinking traditional legal concepts to address the unique characteristics of digital environments. At the same time, the protection of fundamental rights and the principles of justice must remain central to these efforts, ensuring that the pursuit of cybersecurity does not come at the expense of individual freedoms. The development of a unified theoretical framework for understanding cybercrime is essential for guiding these adaptations, providing a coherent foundation for the interpretation and application of legal norms in the context of digital technologies.

Future research on cybercrime should adopt an interdisciplinary approach, drawing on insights from fields such as computer science, sociology, and ethics to develop a holistic understanding of this phenomenon. This will enable legal scholars and practitioners to anticipate emerging forms of cybercrime and their implications, ensuring that legal systems remain proactive rather than reactive in their responses. Continuous legal innovation is also crucial, as the rapid pace of technological

advancement requires legal frameworks to evolve in tandem with new developments. By embracing these challenges and opportunities, legal systems can not only address the risks posed by cybercrime but also harness the potential of technology to advance the broader goals of justice and security in the digital era. This forward-looking perspective is essential for ensuring that legal regulation remains relevant and effective in the face of rapid technological change.

References

1. Бараненко Д., Коваль А., Дульський О. Методологічні принципи дослідження у сфері забезпечення збору доказів (на прикладі кіберзлочинів): кримінально-процесуальні та криміналістичні аспекти // Amazonia Investiga. 2023. Т. 12, №67. С. 232-240.

2. Думчиков М. Доктринальні підходи до визначення поняття кіберзлочину та його основних ознак // European Socio-Legal and Humanitarian Studies. 2022. №2. С. 66-75.

3. Бараненко Д., Коваль А., Дульський О. Методологічні принципи дослідження у сфері забезпечення збору доказів (на прикладі кіберзлочинів): кримінально-правові, кримінально-процесуальні та криміналістичні аспекти // Amazonia Investiga. 2023. Т. 12, №67. С. 232-240.

4. Fraser A. M. Cybercrime from the Perspective of the Control over the Crime Theory in International Criminal Law: New Challenge, Established Solutions? // Jogi Tanulmanyok. 2024. C. 102.

5. Yeboah-Ofori A., Brown A. D. Digital forensics investigation jurisprudence: issues of admissibility of digital evidence // Journal of Forensic, Legal & Investigative Sciences. 2020. T. 6, №1. C. 1-8.