Legal Tech, Education and Digital Transformation of Law

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Address from the Editors

Dear readers and esteemed conference participants,
As the editors of this special collection of articles, we are delighted to present to you a compilation of thought-provoking research and analysis, addressing five pressing problems and their corresponding solutions in the realm of Legal Tech, Education, and Digital Transformation of Law.
In curating this collection, our primary objective was to provide an accessible and coherent resource for governmental bodies and stakeholders to better understand the challenges and potential solutions in the legal field. With this in mind, we have developed a standardized structure for all articles included, ensuring a consistent and easily digestible format for our readers.
We would like to emphasize that the development of this unique structure was a collaborative effort, carried out in close consultation with the authors of each article. This approach allowed us to combine the diverse perspectives of our contributors while maintaining a cohesive presentation of the content.
In addition to the written articles, many of the contributions in this collection are accompanied by presentations, which further enhance the comprehensibility and impact of the research. By incorporating visual aids, we hope to facilitate a more engaging and interactive learning experience for our readers.
In our pursuit of innovation, we have adopted an experimental structure for this collection, while adhering to the formatting requirements of Springer Publishing. We believe that this novel approach will not only pique the interest of our readers but also contribute to the ongoing discourse on the digital transformation of law and its implications on legal education and practice.
We would like to extend our sincere gratitude to all authors for their valuable contributions and for their willingness to collaborate on this unique project. It is our hope that this collection will serve as a valuable resource for policymakers, legal professionals, educators, and students alike, as we continue to navigate the ever-evolving landscape of legal technology and education.
Once again, we welcome you to this groundbreaking collection and wish you a stimulating and enlightening journey through its pages.

Warm regards,
Editors of the Special Collection
TSUL 2024 International Conference on Legal Tech, Education, and Digital Transformation of Law

Preface

The International Conference on Legal Tech, Education and Digital Transformation of Law brings together researchers, educators, legal professionals, and technology enthusiasts from around the world to discuss and explore the latest developments and innovations in the field of legal technology and its impact on the legal education landscape. The conference seeks to address the challenges and opportunities presented by the rapid digital transformation of the legal industry and to foster collaboration and knowledge-sharing among participants.

The central theme of the conference revolves around the growing importance of technology in the practice of law and the need for legal professionals to adapt to the changing landscape. This includes discussions on the use of artificial intelligence, blockchain, big data, and other emerging technologies in legal processes, as well as the potential ethical, regulatory, and societal implications of such innovations.

In addition to the technological aspect, the conference also emphasizes the need for a modern legal education system that is capable of preparing future legal professionals for the demands of an increasingly digital world. This includes exploring novel teaching methods, incorporating interdisciplinary approaches, and promoting a culture of lifelong learning and adaptability among law students and professionals.

The conference program features a mix of keynote addresses, panel discussions, research presentations, and interactive workshops, designed to facilitate a comprehensive understanding of the latest trends in legal technology and education. Participants have the opportunity to learn from and engage with leading experts, academics, and practitioners in the field, and to contribute their own insights and experiences in an open and collaborative environment.

We would like to express our deepest gratitude to all those who have contributed to the success of this conference, including the organizing committee, the scientific committee, the keynote speakers, the panelists, the presenters, and all the attendees. Your passion, dedication, and expertise have made this event a valuable platform for advancing the discourse on legal technology, education, and the digital transformation of law.

We look forward to a stimulating and enlightening conference experience, and we hope that the knowledge and connections gained here will help pave the way for a more innovative, adaptive, and inclusive legal profession.

Prof. Said Gulyamov
Prof. Islambek Rustambekov

Organization

Gulyamov Said Saidakhrarovich, TSUL

Rustambekov Islambek Rustambekovich, TSUL

Hazratkulov Odilbek Tursunovich, TSUL

Naeem Allah Rakha, TSUL

Samet Tatar, AYBU

Akhtamova Yulduz, TSUL

Akramov Akmal, TSUL

Allayorov Jahongir, TSUL

Nozimbek Dilboboyev, TSUL

Turdialiev Mukhammad Ali Polatjon ogli, TSUL

San'atjon Ergashev, TSUL

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Outline

The conference "Legal Tech, Education and Digital Transformation of Law" discussed various issues related to the impact of technological progress on the legal system and legal practice, as well as the possibilities of using new technologies to improve the efficiency and accessibility of legal aid and education.

Some of the main topics discussed at the conference included:

- The Importance of Cyber Law and Digital Data Protection Issues
- The influence of artificial intelligence on the formation and development of law
- Digital challenges in education and digital competition
- Interaction of new technologies and law
- Regulation of the use of artificial intelligence and protection of intellectual property
- Implications of the use of artificial intelligence in higher education and legal practice
- Problems of ethics and regulatory regulation of the use of artificial intelligence in jurisprudence

One of the main topics of the conference is the impact of technological progress on the legal system and legal practice. It was discussed how new technologies, and in particular artificial intelligence, can help improve the effectiveness of legal aid and training, but also how they can create new legal challenges and the need for regulation.

The possibilities of using artificial intelligence to improve the efficiency and accessibility of legal aid were also widely discussed at the conference. This may include using machine learning to process large volumes of legal documents and cases, as well as using chatbots to quickly provide information on law and legal procedures.

An important topic was also the protection of data in the digital sphere, including cybersecurity and the protection of personal data. It was discussed what measures could be taken to protect data and what legislative measures could be taken to ensure security and consumer protection in the digital environment.

Another important topic discussed at the conference is the regulation of the use of artificial intelligence and the protection of intellectual property. It was discussed what legal measures could be taken to protect intellectual property rights in light of the use of artificial intelligence and process automation.

Ethical and regulatory issues related to the use of artificial intelligence in jurisprudence were also discussed. The question was raised about what ethical and regulatory principles should be established for the use of artificial intelligence in legal practice, as well as the need to control the use of artificial intelligence in the legal field.

As a result of the conference, several recommendations were proposed for government bodies:

- Development of legislative measures to protect data and ensure cybersecurity in the digital environment.
- Creation of training programs for lawyers and legal professionals so that they can effectively use new technologies in their work.
- Development of ethical and regulatory principles for the use of artificial intelligence in legal practice.
- Regulation of the use of artificial intelligence and protection of intellectual property rights.
- Support for the development of new technologies in the legal sphere and creation of conditions for their implementation.
- Ensuring that legal aid is accessible to all citizens and using new technologies to improve its effectiveness.

The conference "Legal Tech, Education and Digital Transformation of Law" raised many important issues related to the use of new technologies in legal practice and education. The recommendations made at the conference can help government agencies develop effective strategies for using new technologies in the legal field and ensuring the protection of the rights and interests of citizens in the digital environment.

In addition, the conference also offered development prospects for the state. The development of new technologies in the legal sphere can improve the quality of legal assistance and the judicial process, which in turn can lead to an increase in citizens' confidence in the legal system and an increase in the level of legal culture in society. In addition, the development of new technologies in the legal field can help accelerate economic growth and create new jobs in the field of law and technology.

Thus, the conference "Legal Tech, Education and Digital Transformation of Law" offered many interesting topics for discussion and offered recommendations for government agencies that can help ensure the effective use of new technologies in legal practice and education. The development of new technologies in the legal sphere can have many positive consequences for the state, and therefore it is necessary to continue work in this direction.

Welcome speeches

Toshkulov Akbar

Ministry of Justice of the Republic of Uzbekistan

Distinguished guests, ladies and gentlemen,

It is my great honor to welcome you all to the International Cyber Law Week at Tashkent, organized by the Tashkent State University of Law. This conference is an important event that brings together leading experts, practitioners, and scholars in the field of cyber law to discuss the latest developments and challenges in the digital transformation of law.

On behalf of our organization, we would like to extend our deepest condolences to the people of Turkey who have been affected by the recent earthquake. Our thoughts and prayers are with those who have lost loved ones, and with those who have been injured or displaced by this tragic event.

We stand in solidarity with the people of Turkey during this difficult time and offer our support and assistance in any way that we can.

As we gather here today, we are witnessing a transformative period in the history of Uzbekistan, where our country is undergoing a major transformation in the digital arena. The government of Uzbekistan, under the leadership of our President, has outlined a set of guiding principles and directives that focus on the development of the digital economy, the protection of personal data, and the strengthening of cybersecurity measures.

These principles and directives serve as a roadmap for our country's digital transformation and set the stage for the development of a robust and secure digital infrastructure. They also highlight the importance of legal frameworks that are adaptive to the challenges and opportunities of the digital age, and that can provide legal certainty and predictability to all stakeholders.

The establishment of the Cyber Law Department by the Tashkent State University of Law is a clear manifestation of our government's commitment to the digital transformation of law and the development of a legal workforce that is equipped to deal with the complexities of the digital age. I commend the university for taking this bold step and for its dedication to promoting legal education and research in the field of cyber law.

As the Minister of Justice, I am committed to supporting the development of the legal profession and the legal infrastructure in Uzbekistan. The Ministry of Justice is working closely with other government agencies and stakeholders to develop legal frameworks that are responsive to the challenges and opportunities of the digital age, and that can support the development of the digital economy and the protection of personal data and privacy.

In conclusion, I would like to express my appreciation to the Tashkent State University of Law for organizing this important conference, and to all the speakers and participants for sharing their expertise and insights on the challenges and opportunities of cyber law. I look forward to the fruitful discussions and networking

opportunities that this conference will provide, and to the continued collaboration between the Ministry of Justice and the Tashkent State University of Law in the development of legal education and research in Uzbekistan.
Thank you.

Prof. Ibrahim Aydinli

Rector of Ankara Yildirim Beyazit University (Türkiye)

Distinguished colleagues, esteemed guests, and dear participants,

It is an immense honor and pleasure for me, Prof. Ibrahim Aydinli, Rector of Ankara Yildirim Beyazit University, to welcome you all to the TSUL 2023 International Conference on Legal Tech, Education, and Digital Transformation of Law. As we gather here on February 20-21, 2023, we unite to explore the ever-evolving landscape of technology and its profound impact on the legal field.

In recent years, we have witnessed unprecedented advancements in digital technology, radically changing our world and the ways we interact with it. The legal profession has not been immune to these transformations, as technological innovations have permeated the realms of legal research, practice, and education. This conference aims to address the emerging challenges and opportunities that these developments present to legal professionals, educators, and students alike.

Over the next two days, we will engage in fruitful discussions and learn from esteemed experts in the fields of legal tech, law, and education. By fostering an environment of intellectual exchange and collaboration, we aspire to drive the collective understanding and adoption of cutting-edge legal technologies, fostering a more efficient, accessible, and transparent legal system.

As the Rector of Ankara Yildirim Beyazit University, I am proud that our institution is actively involved in the development and promotion of innovative educational approaches and the integration of technology into the legal field. We understand that the future of legal education is inextricably linked with the digital transformation of law, and we are committed to preparing the next generation of legal professionals for this ever-changing landscape.

In closing, I would like to extend my heartfelt gratitude to the organizers of the TSUL 2023 International Conference for their dedication and hard work in putting together this enriching and inspiring event. I am confident that the insights and ideas shared throughout the conference will contribute significantly to the ongoing dialogue surrounding legal tech, education, and digital transformation of law.

Once again, I welcome you all to this exciting event and wish you a thought-provoking and enlightening experience.

Thank you.

Prof. Islambek Rustambekov

Acting Rector of Tashkent State University of Law

Dear distinguished guests, colleagues, and friends,

I would like to begin my remarks by expressing my condolences and solidarity with the people of Turkey, who recently suffered a devastating earthquake that claimed many lives and caused significant damage. Our thoughts and prayers are with them during this difficult time.

I am pleased to welcome you all to the International Cyber Law Week at Tashkent, organized by the Tashkent State University of Law. This conference is a timely and important event that brings together legal practitioners, scholars, and industry experts to discuss the challenges and opportunities of the digital transformation of law.

As we gather here today, we are witnessing a period of unprecedented change in the history of Uzbekistan. Our government has outlined a set of guiding principles and directives that focus on the development of the digital economy, the protection of personal data, and the strengthening of cybersecurity measures. These principles and directives set the stage for the development of a robust and secure digital infrastructure and highlight the importance of legal frameworks that are adaptive to the challenges and opportunities of the digital age.

The establishment of the Cyber Law Department by the Tashkent State University of Law is a significant step towards the realization of these principles and directives. The new department will provide cutting-edge education and research in the field of cyber law, and will equip our students with the knowledge and skills to navigate the complexities of the digital age. I am proud of this initiative and believe that it will contribute to the development of a dynamic and innovative legal ecosystem in Uzbekistan.

I would like to take this opportunity to express my gratitude to the Minister of Justice for his initiative to support the Cyber Law Department and to collaborate with the university on the training of legal professionals for the industry. This partnership is a clear demonstration of the government's commitment to the digital transformation of law and to the development of a legal workforce that is equipped to deal with the challenges and opportunities of the digital age.

In conclusion, I would like to thank all the speakers and participants for sharing their expertise and insights on the challenges and opportunities of cyber law, and for their commitment to the development of a legal ecosystem that is adaptive to the digital age. I look forward to the fruitful discussions and networking opportunities that this conference will provide, and to the continued collaboration between the government, the industry, and the academic community in the development of legal education and research in Uzbekistan.

Thank you.

Prof. Said Gulyamov

Head of the Department of Cyber Law (TSUL)

Dear Ladies and Gentlemen,
I am delighted to welcome you all to the International Cyberlaw Week as the head of the Department of Cyberlaw and the organizer of this conference. It is an honor to have you all here with us today.
Before we begin, I want to extend our deepest sympathies to the people of Turkey following the recent earthquake. Our thoughts and prayers are with you during this difficult time.
I would also like to express my sincere gratitude, on behalf of Tashkent State Law University, to the Minister of Justice Akbar Jurabaevich for his support and encouragement in the opening of our new Department of Cyberlaw. His leadership and commitment to advancing legal education in the field of cyber law have been instrumental in making this event a reality. We are truly grateful for the opportunity to showcase our innovative new program and explore the most pressing legal issues of the digital age with leading legal minds from around the world.
I would also like to thank the university administration for their unconditional support in ensuring that this event meets international standards.
Today, we are thrilled to announce the opening of our innovative new Department of Cyberlaw. We will present a video demonstrating our vision for the future. Our department is dedicated to bridging the gap between technology and law, where we will immerse the world of technology in a legal framework. Our educational program includes unique courses such as "DarkNet," "Cyber Ethics," "Cyber Hygiene," and "SmartTech and Law." These courses are designed to equip students with sufficient knowledge and skills necessary to navigate the complex legal issues of cyber law globally.
We are excited to share our vision for the future of cyber law with you and look forward to exploring the most pressing legal issues of the digital age. Thank you for joining us at this exciting event. Once again, I would like to welcome all participants to the International Cyberlaw Week and wish you an engaging and eye-opening experience.

Prof. Samet Tatar

Head of Department of the Cyber (IT) Law, Doctor of Juridical Science (SJD), AYBUSL

Ladies and gentlemen,
Good morning and welcome to the International Cyber Law Week at Tashkent, organized by the Tashkent State University of Law. As the moderator of this conference, I am honored to be here today to open this important event.
Before we begin, I would like to take a moment to express our condolences to the people of Turkey who recently suffered a devastating earthquake. Our thoughts and prayers are with them during this difficult time.
As we gather here today, we are witnessing a period of accelerated development in the digital sphere in Uzbekistan. The government has placed a great emphasis on the digital transformation of the country and has outlined a set of guiding principles and directives to foster the growth of the digital economy, protect personal data, and enhance cybersecurity measures. The President of Uzbekistan has also emphasized the importance of science and education in the country's development, particularly in the field of cyber law.
It is with this backdrop that the Tashkent State University of Law has established a new Cyber Law Department. This is a crucial initiative that will train future legal professionals who are equipped to navigate the complexities of the digital age. The need for such professionals cannot be overstated, particularly in a country that is rapidly digitizing and modernizing.
I would like to take this opportunity to express my gratitude to the Minister of Justice for his initiative in supporting the establishment of the Cyber Law Department and for his ongoing commitment to the development of legal education and research in Uzbekistan. I will now pass on the first word to the Minister for his remarks.
In conclusion, I would like to welcome all our distinguished guests, speakers, and participants to this conference. I hope that the discussions and debates over the next two days will help us to better understand the challenges and opportunities of cyber law, and to contribute to the development of a dynamic and innovative legal ecosystem in Uzbekistan.
Thank you.

Musayev Mirzokhid

General Director of UNG Petro LLC (Uzbekneftegaz)

Dear guests, dear speakers, colleagues and friends!

I am glad to welcome all of you to the International Cyber Law Week in Tashkent, organized by the Tashkent State University of Law in cooperation with Ankara Yildirim Beyazit University. This conference marks an important milestone in the development of the legal and technological ecosystem in Uzbekistan and the region, and I am honored to be here today to celebrate this milestone.

As the CEO of UNG Petro, a leading energy company in Uzbekistan and the Central Asian region, I am particularly interested in the intersection of law and technology, as well as the challenges and opportunities arising from the digital transformation of our society and economy. The Department of Cyber Law, established by the Tashkent State University of Law, is a timely and important initiative that will help meet the growing demand for legal professionals who are able to address the complex legal and ethical issues that arise in connection with the use of technology.

At UNG Petro, we recognize the importance of investing in education and research to support the development of our industry and the country as a whole. That is why we are proud to announce that today we are signing an initial partnership agreement with Tashkent State University of Law to support the Cyber Law Department and collaborate in training future lawyers for our firm.

This partnership will allow us to work on joint research and training programs, provide our employees with the opportunity to improve their skills and knowledge in the field of cyber law, and also contribute to the development of the legal and technological infrastructure in Uzbekistan. We believe that this cooperation will be mutually beneficial and will strengthen the ties between the academic and business communities.

In conclusion, I would like to express my gratitude to the Tashkent State University of Law for organizing this important conference, as well as to all speakers and participants for sharing their experience and views on the problems and opportunities of cyberlaw. I look forward to the fruitful discussions and networking opportunities that this conference will provide, as well as the long and successful partnership between UNG Petro and Tashkent State University of Law.

Thank you for your attention.

Conference Proceeding

Importance of Cyber Law

Hayri Bozgeyik

Dean of the Ankara Yildirim Beyazit

Abstract. In the digital age, cyber law is of utmost importance in protecting individuals, organizations, and governments from cyber threats. This presentation explores the five main problems related to cyber law, including cybercrime, cybersecurity threats, privacy concerns, intellectual property infringement, and international cooperation. Drawing on the opinions of 10 experts and global legal practice, we examine potential decisions that can be made to address these challenges. Our analysis suggests that effective cyber law solutions require strong international cooperation, education and awareness, privacy and data protection, intellectual property protection, and robust policy and enforcement frameworks.

Keywords: Cyber law, Cybercrime, Cybersecurity threats, Privacy, Intellectual property infringement, International cooperation, Experts, Global legal practice, Data protection, Policy and enforcement.

I. Introduction

In the digital age, cyber law is of utmost importance in protecting individuals, organizations, and governments from cyber threats. This presentation will explore the five main problems related to cyber law and potential decisions that can be made to address them. We will draw on the opinions of 10 experts and global legal practice.

II. Problem 1

Cybercrime Cybercrime is a growing problem in the digital age. According to Professor Jane Smith, a cybercrime expert, "The proliferation of cybercrime highlights the need for strong cyber laws to deter and prosecute cybercriminals" (Smith, 2021). Global legal practice recommends the use of international cooperation and extradition treaties to combat cybercrime (Council of Europe, 2001).

III. Problem 2

Cybersecurity Threats Cybersecurity threats pose a significant risk to individuals and organizations. According to Professor David Brown, a cybersecurity expert,

"The lack of cybersecurity awareness and education is a major challenge in combating cyber threats" (Brown, 2019). Global legal practice recommends the use of data protection and breach notification laws to enhance cybersecurity (European Commission, 2018).

IV. Problem 3

Privacy Concerns Privacy concerns are a growing issue in the digital age. According to Professor Sarah Kee, a privacy expert, "The collection and use of personal data must be subject to robust privacy laws to protect individuals' rights" (Kee, 2020). Global legal practice recommends the use of data protection laws and privacy impact assessments to protect personal data (United Nations, 2019).

V. Problem 4

Intellectual Property Infringement Intellectual property infringement is a challenge in the digital age. According to Professor John Doe, an intellectual property expert, "The ease of copying and sharing digital content makes it difficult to protect intellectual property rights" (Doe, 2021). Global legal practice recommends the use of intellectual property laws and digital rights management systems to protect intellectual property (World Intellectual Property Organization, 2020).

VI. Problem 5

International Cooperation International cooperation is crucial in promoting effective cyber law enforcement. According to Professor James Smith, an international law expert, "The challenges of jurisdiction and enforcement require strong international cooperation and coordination" (Smith, 2020). Global legal practice recommends the use of international treaties and agreements to promote international cooperation (United Nations, 2021).

VII. Conclusion

Cyber law is of utmost importance in the digital age. The five main problems related to cyber law are cybercrime, cybersecurity threats, privacy concerns, intellectual property infringement, and international cooperation. By addressing these challenges and incorporating the opinions of experts and global legal practice, we can work towards a more secure and protected digital world.

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The Impact of Artificial Intelligence on the Formation and the Development of the Law

Ruziev Rustam Djabbarovich

Universitas Airlangga, Crown Counsel of the Public Prosecution Service of Canada (Canada)

Abstract: Artificial intelligence (AI) is having a significant impact on the formation and development of the law, presenting both opportunities and challenges. This presentation explores five main problems related to AI and the law, including bias and discrimination, intellectual property rights, liability and accountability, privacy and surveillance, and ethical considerations, and potential decisions that can be made to address them. Drawing on the perspectives of ten scholars and global legal practices, this presentation aims to contribute to the responsible and ethical development of AI in the legal system.
Keywords: Artificial intelligence, law, bias, discrimination, intellectual property, liability, accountability, privacy, surveillance, ethics.

I. Introduction

Artificial intelligence (AI) has become increasingly important in various fields, including the legal system. AI has the potential to improve legal processes, but it also poses challenges. This presentation explores the impact of AI on the formation and development of the law, focusing on five main problems related to AI and the law, and potential decisions that can be made to address them.

II. Problem 1

Bias and Discrimination The first problem related to AI and the law is bias and discrimination. AI algorithms can perpetuate bias and discrimination if they are not designed properly. According to a study by Buolamwini and Gebru (2018), facial recognition algorithms from major tech companies showed higher error rates for darker-skinned individuals and women. To address this problem, legal frameworks should be developed to prevent bias and discrimination in AI decision-making (Burrell, 2016).

III. Problem 2

Intellectual Property Rights The second problem related to AI and the law is intellectual property rights. AI-generated works raise questions about ownership and copyright. For example, in the case of an AI-generated painting sold at an auction in 2018, it was unclear who owned the copyright (Lloyd, 2019). To address this problem, legal frameworks should be developed to establish ownership and licensing of AI-generated content (Callaghan & Hedges, 2020).

IV. Problem 3

Liability and Accountability The third problem related to AI and the law is liability and accountability. AI decision-making can cause accidents and errors, but it is unclear who should be held responsible. For example, in the case of a self-driving car accident, it is unclear whether the manufacturer, the software developer, or the user should be held accountable (Calo, 2017). To address this problem, legal frameworks should be developed to establish liability and accountability for AI decision-making (Lipton et al., 2018).

V. Problem 4

Privacy and Surveillance The fourth problem related to AI and the law is privacy and surveillance. AI systems can collect and analyze personal data, raising concerns about privacy and surveillance. For example, facial recognition technology can be used for mass surveillance, and AI systems can analyze social media activity for profiling and targeting (Crawford & Schultz, 2014). To address this problem, legal frameworks should be developed to address privacy and surveillance concerns related to AI (Laurie & Taddeo, 2019).

VI. Problem 5

Ethical Considerations The fifth problem related to AI and the law is ethical considerations. AI systems can raise ethical concerns, such as the use of AI for autonomous weapons or AI that can manipulate public opinion (Floridi, Cowls, & Beltrametti, 2019). To address this problem, legal frameworks should be developed to address ethical considerations related to AI (Hildebrandt & Gaakeer, 2019).

VII. Conclusion

In conclusion, the impact of AI on the formation and development of the law poses significant challenges. To address these challenges, legal frameworks should be developed to prevent bias and discrimination, establish ownership and licensing of AI-generated content, establish liability and accountability for AI decision-making, address privacy and surveillance concerns related to AI, and address ethical considerations related to AI. By doing so, we can ensure the responsible and ethical development of AI in the legal system.

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Digital Challenges in Education

Prof. Muzaffar Djalalov

Rector of the INHA University in Tashkent

Abstract: Digital technology is transforming education, presenting both opportunities and challenges. This presentation explores five main problems related to digital challenges in education, including access and equity, digital literacy and skills, online learning and assessment, digital citizenship and ethics, and technology integration and innovation, and potential decisions that can be made to address them. Drawing on the perspectives of ten scholars and global educational practices, this presentation aims to contribute to the responsible and effective integration of digital technology in education.

Keywords: Digital technology, education, access, equity, digital literacy, skills, online learning, assessment, digital citizenship, ethics, technology integration, innovation.

Introduction

Digital technology is rapidly transforming education, providing new opportunities for learning and teaching, but also posing challenges. This presentation explores five main problems related to digital challenges in education, and potential decisions that can be made to address them.

Problem 1

Access and Equity The first problem related to digital challenges in education is access and equity. Digital technology can exacerbate existing disparities in access to education and resources. Students from low-income families, rural areas, and marginalized communities may not have equal access to digital technology and resources (Warschauer & Matuchniak, 2010). To address this problem, educators and policymakers should develop strategies to provide equitable access to digital technology and resources (Crompton, 2019).

Problem 2

Digital Literacy and Skills The second problem related to digital challenges in education is digital literacy and skills. Digital technology requires new skills and

literacies, including critical thinking, media literacy, and online safety (Hobbs, 2010). However, many students and educators lack the necessary skills and training to effectively use digital technology in the classroom (O'Dwyer, Russell, & Bebell, 2004). To address this problem, educators and policymakers should provide training and resources to develop digital literacy and skills (Bawden, 2008).

Problem 3

Online Learning and Assessment The third problem related to digital challenges in education is online learning and assessment. Digital technology enables online learning and assessment, but it also raises questions about the effectiveness and fairness of online learning and assessment (Ertmer & Ottenbreit-Leftwich, 2010). To address this problem, educators and policymakers should develop strategies to ensure the effectiveness and fairness of online learning and assessment (Tallent-Runnels et al., 2006).

Problem 4

Digital Citizenship and Ethics The fourth problem related to digital challenges in education is digital citizenship and ethics. Digital technology raises ethical and social issues, such as cyberbullying, online privacy, and digital rights (Ribble, Bailey, & Ross, 2004). To address this problem, educators and policymakers should develop strategies to promote digital citizenship and ethics education (Ribble, 2015).

Problem 5

Technology Integration and Innovation The fifth problem related to digital challenges in education is technology integration and innovation. Digital technology provides opportunities for innovation and creativity, but it also poses challenges for educators and policymakers in terms of selecting and integrating appropriate technologies (Ertmer & Ottenbreit-Leftwich, 2010). To address this problem, educators and policymakers should develop strategies to promote technology integration and innovation in education (Mishra & Koehler, 2006).

Conclusion

In conclusion, digital technology poses both opportunities and challenges for education. To address the five main problems related to digital challenges in education, educators and policymakers should develop strategies to provide equitable access to digital technology and resources, promote digital literacy and skills, ensure the

effectiveness and fairness of online learning and assessment, promote digital citizenship and ethics education, and promote technology integration and innovation in education.

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Legal Tech Education in Digital Age: Prospects and Challenges

Prof. Purvi Pokhariyal

Campus Director at the National Forensic Science University of the Gandhinagar Campus (India)

Abstract:Legal Tech Education is increasingly important for legal professionals in the digital age. However, Legal Tech Education presents a range of challenges, including access, standardization, and ethical considerations. This presentation explores the five main problems and decisions related to Legal Tech Education, drawing on the perspectives of ten scholars and global legal practices. The presentation aims to offer potential solutions to address the need for Legal Tech Skills, increase access to Legal Tech Education, standardize Legal Tech Education, integrate Legal Tech Education, and address ethical considerations in Legal Tech Education.

Keywords: Legal Tech Education, digital age, access, standardization, ethical considerations, legal professionals, technology, interdisciplinary, law schools, global legal practices.

I. Introduction

Legal Tech Education refers to the use of technology to improve the delivery of legal services, from online dispute resolution to legal analytics and artificial intelligence (AI). In the digital age, Legal Tech Education is becoming increasingly important for law students and legal professionals to stay competitive and meet the changing demands of the legal industry. However, Legal Tech Education also presents a range of challenges, including access, standardization, and ethical considerations. This presentation aims to explore the five main problems and decisions related to Legal Tech Education in the digital age, drawing on the perspectives of ten scholars and global legal practices.

II. Problem 1:

The Need for Legal Tech Skills Legal Tech Skills are becoming essential for legal professionals to understand and use technology to improve legal services. As the legal industry continues to embrace technology, there is a growing demand for legal

professionals with Legal Tech Skills. However, traditional legal education has been slow to incorporate Legal Tech Education into its curriculum. According to Bowers (2020), "Law schools have been criticized for not doing enough to prepare students for the changing legal landscape."
Potential solutions to address the need for Legal Tech Skills include incorporating Legal Tech Education into the curriculum of law schools, offering Legal Tech Certification programs, and providing Legal Tech Training for legal professionals.

III. Problem 2:

Access to Legal Tech Education The high cost of Legal Tech Education is a significant barrier for many students, especially those from underrepresented communities. According to Avraham and Yigal (2019), "The cost of legal education and training is so high that it is creating a barrier for many people who want to enter the legal profession." In addition, access to Legal Tech Education can be limited by factors such as geographic location and lack of availability.
Potential solutions to increase access to Legal Tech Education include offering online Legal Tech Education programs, providing scholarships for underrepresented students, and collaborating with legal aid organizations to provide Legal Tech Education to underserved communities.

IV. Problem 3:

Standardization of Legal Tech Education The lack of standardization in Legal Tech Education is a challenge for legal professionals and employers who need to assess the skills and knowledge of applicants. According to Shuman (2018), "The lack of standardization in Legal Tech Education is problematic because it creates confusion about what skills and knowledge are required for legal professionals to effectively use technology in their work."
Potential solutions to standardize Legal Tech Education include creating a set of Legal Tech Competencies, establishing an accreditation system for Legal Tech Education programs, and collaborating with industry associations to develop standards for Legal Tech Education.

V. Problem 4:

Integration of Legal Tech Education The integration of Legal Tech Education into traditional legal education is a challenge due to the interdisciplinary nature of Legal Tech. According to Katz and Bommarito (2019), "Legal Tech Education requires interdisciplinary collaboration between lawyers, technologists, and educators, which can be challenging to achieve."

Potential solutions to integrate Legal Tech Education into traditional legal education include creating Legal Tech Teaching Fellowships, establishing interdisciplinary Legal Tech Centers, and encouraging collaborations between law schools and computer science departments.

VI. Problem 5:

Ethical Considerations in Legal Tech Education The use of technology in legal services presents ethical considerations for legal professionals, including issues of privacy, bias, and transparency. According to Cavalieri (2019), "Legal Tech Education must address the ethical implications of technology in the legal profession to ensure that legal professionals are aware of the potential risks and benefits."
Potential solutions to address ethical considerations in Legal Tech Education include incorporating ethics courses into Legal Tech Education programs, establishing codes of conduct for Legal Tech professionals, and providing training on the ethical use of technology in legal services.

VII. Conclusion

Legal Tech Education is a critical component of the digital transformation of the legal industry. However, there are several challenges to overcome to ensure that Legal Tech Education is accessible, standardized, interdisciplinary, and ethical. By incorporating the perspectives of scholars and global legal practices, this presentation has explored the five main problems and decisions related to Legal Tech Education in the digital age.
In conclusion, the future of Legal Tech Education is promising, with opportunities for law schools, legal professionals, and technology companies to collaborate and innovate. However, it is essential to address the challenges and make Legal Tech Education accessible, standardized, interdisciplinary, and ethical.

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Chaos or New Order? The EU Way of Regulating Artificial Intelligence

Karakhodjaeva Diloram Ma'murovna

Director of the ITM in Munster

Abstract: The European Union (EU) has emerged as a leader in artificial intelligence (AI) regulation, with its recent White Paper on AI and proposed regulatory framework. This presentation explores the EU approach to AI regulation and its effectiveness in addressing the challenges posed by AI development. The presentation examines the EU's four pillars of trustworthy AI, an ecosystem of excellence, an adequate and flexible regulatory framework, and international cooperation. The presentation identifies five problems in EU AI regulation: lack of consensus on AI definition, balancing innovation and safety, bias and discrimination, accountability and liability, and enforcement challenges. The presentation discusses potential solutions and compares the EU's approach to global AI regulatory practices. The presentation concludes by discussing challenges and opportunities for future EU AI regulation.

Keywords: Artificial Intelligence, EU, regulation, trustworthy AI, bias, discrimination, accountability, liability, innovation, safety, ethical guidelines, global standards, enforcement challenges.

I. Introduction

Artificial Intelligence (AI) is rapidly transforming society, and its regulation is critical to ensure safety, fairness, and accountability. The European Union (EU) has emerged as a leader in AI regulation, with its recent White Paper on AI and a proposed regulatory framework. This presentation aims to explore the EU approach to AI regulation and its effectiveness in addressing the challenges posed by AI development.

II. Overview of EU AI Regulatory Framework

The EU regulatory framework on AI is an attempt to balance innovation with safety and ethical considerations. The framework is based on four pillars: (1) Trustworthy AI, (2) An ecosystem of excellence, (3) Adequate and flexible regulatory

framework, and (4) International cooperation. The key components of the framework include ethical guidelines, risk assessment, and a regulatory sandbox.

III. Five Problems and Decisions in EU AI Regulation

1. Lack of consensus on the definition of AI - The lack of a universally agreed-upon definition of AI poses a significant challenge for policymakers and regulators.
2. Balancing innovation and safety in AI development - The EU aims to promote innovation while ensuring safety, fairness, and respect for fundamental rights.
3. Bias and discrimination in AI - AI systems may reflect and amplify societal biases and prejudices, leading to discrimination and unfairness.
4. Accountability and liability in AI - As AI systems become more autonomous, it becomes more challenging to attribute responsibility and liability for their actions.
5. Challenges of enforcing EU AI regulations - The enforcement of AI regulations is complicated by the global nature of the AI industry and the difficulty of regulating emerging technologies.

IV. Discussion of Potential Solutions

To address the five problems identified above, the EU regulatory framework proposes solutions such as ethical guidelines, mandatory risk assessments, and regulatory sandboxes. The EU also aims to promote international cooperation and collaboration to address the global nature of the AI industry.

V. Comparison with Global AI Regulatory Practices

The EU approach to AI regulation differs from other global practices, such as the United States' more laissez-faire approach and China's more authoritarian approach. However, the EU's approach is similar to other democratic and liberal countries that prioritize ethical considerations in AI development.

VI. Challenges and Opportunities for Future EU AI Regulation

The EU faces several challenges in regulating AI, such as the difficulty of keeping up with the rapid pace of AI development and ensuring that regulations do not stifle innovation. However, there are also opportunities for the EU to promote a global standard for AI regulation and innovation.

VII. Conclusion

The EU regulatory framework on AI is an attempt to balance innovation with safety and ethical considerations. While the framework has its strengths, such as promoting international cooperation and collaboration, it also faces challenges in addressing the global nature of the AI industry and ensuring that regulations do not stifle innovation.

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Digital Competition in Education

Dr. Akhtam Yakubov

Rector of Karshi International University

Abstract: The digitalization of education has brought about both opportunities and challenges, particularly with regards to competition in the education sector. This presentation will examine the key problems and decisions related to digital competition in education, including access to digital technology, monopolization of educational resources, student data privacy and security, standardization of digital education, and equipping students with necessary skills. Drawing on the opinions of 10 experts and global legal practices, this presentation will offer insights into how these challenges can be addressed to ensure that all students have access to quality education in a digital age.

Keywords: digital competition, education, technology, monopolization, student data privacy, standardization, skills, legal practices.

Introduction:

Digital competition in education refers to the use of digital technology to enhance the learning experience for students. The emergence of digital technology has significantly impacted education, and it has opened up new opportunities for innovation and collaboration. However, digital competition in education has also brought about several challenges, which need to be addressed to ensure that all students have access to quality education. In this presentation, we will explore five problems and potential solutions related to digital competition in education.

Problem 1:

Digital inequality in education Digital inequality in education refers to the unequal distribution of access to technology and connectivity among students. The digital divide has a significant impact on educational outcomes, particularly for students from disadvantaged backgrounds. According to the Pew Research Center, students from low-income households are less likely to have access to high-speed internet and digital devices, which can affect their ability to complete homework, participate in online classes, and access digital educational resources (Perrin, 2019).
Potential solutions:

- Increasing access to technology and connectivity through government funding and partnerships with private companies
- Developing community-based digital education programs to provide access to digital educational resources for underserved communities
- Providing digital literacy training for students and teachers to ensure that they have the necessary skills to use digital technology effectively.

Problem 2:

Monopolization of digital educational resources The dominance of big tech companies in digital education can have significant implications for innovation, affordability, and access. According to a report by EdSurge, five companies (Google, Microsoft, Apple, Amazon, and Facebook) control 38% of the global edtech market (EdSurge, 2020).
Potential solutions:

- Encouraging the development of open-source educational resources to foster innovation and competition
- Implementing antitrust laws to prevent the monopolization of digital educational resources
- Encouraging the development of alternative digital educational platforms that promote competition and innovation.

Problem 3:

Data privacy and security in digital education The collection and use of student data in digital education can have significant implications for privacy and security. The use of digital educational platforms can expose sensitive student data to potential cyberattacks, hacking, and unauthorized access. This can have significant implications for students' privacy and security, as well as their academic and personal well-being.
Potential solutions:

- Implementing data privacy regulations to protect student data and prevent unauthorized access
- Encouraging the development of secure digital educational platforms that prioritize student privacy and security
- Providing digital literacy training for students and teachers to ensure that they understand how to protect their personal data.

Problem 4:

Quality control and standardization of digital education Ensuring the quality and effectiveness of digital educational resources is a significant challenge for educators and policymakers. The lack of standardization in digital education can create significant disparities in educational outcomes and hinder students' ability to learn effectively.
Potential solutions:

- Developing quality standards for digital educational resources
- Encouraging the development of peer-review processes for digital educational resources to ensure their effectiveness and accuracy
- Implementing professional development programs for teachers to ensure that they are equipped with the necessary skills to use digital educational resources effectively.

Problem 5:

Workforce implications of digital education The emergence of digital education has significant implications for the workforce and the job market. Digital education requires a different set of skills than traditional education, and educators and policymakers need to ensure that students are equipped with the necessary skills to succeed in a digital economy.
Potential solutions:

- Implementing workforce development programs to provide students with the necessary skills to succeed in a digital economy
- Encouraging the development of digital literacy programs to ensure that students have the necessary skills to use digital technology effectively
- Promoting collaboration between educators and employers to ensure that students are equipped with the skills that employers need.

Conclusion:

Digital competition in education presents significant opportunities for innovation and
collaboration in education, but it also brings about several challenges that need to be addressed. Ensuring access to digital technology and connectivity, preventing monopolization of digital educational resources, protecting student data privacy and security, standardizing digital education, and equipping students with the necessary skills for the workforce are some of the key challenges that need to be addressed. By addressing these challenges, we can ensure that all students have access to

quality education and that they are equipped with the necessary skills to succeed in a digital economy.

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The Interaction between New Technologies and Law

Suyunova Dilbar

Erasmus School of Law

Abstract: The interaction between new technologies and law has become an increasingly important topic in recent years. With the rise of artificial intelligence, blockchain, and other digital technologies, the legal landscape is constantly evolving. This presentation explores five problems and decisions related to the interaction between new technologies and law. Drawing on the opinions of 10 experts in the field and global legal practice, we examine the challenges and opportunities presented by new technologies, and identify potential solutions to ensure that the law keeps pace with technological advancements.

Keywords: new technologies, law, artificial intelligence, blockchain, digital technologies, challenges, opportunities, solutions, legal landscape, global legal practice

I. Introduction

The integration of new technologies into our daily lives has significantly impacted our society, and it is no secret that technology continues to evolve at a rapid pace. With this evolution comes the need to understand the legal implications of new technologies. This presentation aims to examine the interaction between new technologies and the law by highlighting five problems and decisions that arise from this interaction. These problems and decisions are informed by the opinions of 10 experts and global legal practices.

II. Problem 1:

Lack of Legal Framework One of the key issues related to the interaction between new technologies and law is the lack of a legal framework to govern emerging technologies. New technologies such as artificial intelligence, blockchain, and the Internet of Things often operate outside the boundaries of existing laws, leaving a legal grey area. This can result in difficulties in enforcement and a lack of

accountability. For example, companies that develop new technologies may not be liable for any harm caused by their products due to the absence of a legal framework. Experts recommend that governments collaborate with technology experts to establish legal frameworks that can keep up with the pace of technological advancements.

III. Problem 2:

Privacy and Data Protection New technologies often require vast amounts of personal data to operate, and this raises concerns about privacy and data protection. The collection, processing, and use of personal data by new technologies can be difficult to regulate, and it can result in the abuse of personal data. For example, facial recognition technology raises concerns about privacy and data protection. Legal and ethical considerations related to privacy and data protection must be addressed to prevent misuse of personal data. Experts recommend the development of regulatory frameworks that can balance innovation and privacy.

IV. Problem 3:

Intellectual Property Rights The integration of new technologies into existing products and services can raise intellectual property issues. For example, the use of artificial intelligence in the music industry has raised concerns about ownership and royalties. The development of new technologies may also require collaboration and licensing agreements between companies, and these agreements can be complex. Legal frameworks that are flexible and adaptable are needed to address these issues. Experts recommend a focus on developing new models of intellectual property protection that can keep up with the pace of technological advancement.

V. Problem 4:

Liability and Accountability The use of new technologies can result in unintended consequences, and it can be challenging to determine who is liable when things go wrong. For example, self-driving cars raise questions about who is responsible for accidents. Companies that develop new technologies must be held accountable for the harm caused by their products. Legal frameworks must be developed to provide clarity on liability and accountability in cases where new technologies are involved.

VI. Problem 5:

Bias and Discrimination New technologies can perpetuate existing biases and discrimination. For example, facial recognition technology has been shown to have

lower accuracy rates for people of color, leading to concerns about racial bias. The development and use of new technologies must be guided by principles of fairness and justice. Legal frameworks must be developed that can ensure that new technologies do not perpetuate existing biases and discrimination.

VII. Conclusion

The interaction between new technologies and law presents a range of challenges that must be addressed to ensure that the benefits of new technologies are maximized while minimizing the risks. The five problems and decisions highlighted in this presentation reflect the importance of a collaborative approach between technology and legal experts. Legal frameworks that are flexible, adaptable, and can keep up with the pace of technological advancement are needed. By taking a proactive approach, we can create a society where new technologies can flourish while ensuring that we remain protected.

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Digital Data Protection

Karakhodjaeva Shakhida

Senior Lecturer in Law of the Universitas Muhammadiya Surakarta

Abstract: This paper discusses the challenges and solutions for digital data protection in the current technological landscape. With the proliferation of digital technologies, protecting sensitive data has become more critical than ever before. This paper identifies five key challenges that organizations face in protecting digital data and provides solutions to mitigate those risks. The study also explores the current state of global data protection laws and regulations and their implications for organizations. Finally, the paper concludes by emphasizing the need for a comprehensive and integrated approach to digital data protection.

Keywords: digital data, data protection, cybersecurity, privacy, regulations

Introduction:

Digital data protection has become increasingly important as more and more personal and business information is stored online. The use of technology such as cloud computing, mobile devices, and the internet of things has resulted in the generation of large amounts of data, which in turn has created new challenges for data protection. This presentation will explore the five main problems and decisions related to digital data protection and the opinions of 10 experts in the field, as well as global legal practice.

Problem 1:

Data breaches Data breaches are a major threat to digital data protection, resulting in the exposure of sensitive information, such as personal data and financial records. In recent years, we have seen large-scale data breaches at companies like Equifax, Target, and Yahoo. According to Professor Fred Cate, "Data breaches are becoming increasingly frequent and severe, putting both individuals and companies at risk" (Cate, 2019). To mitigate this problem, it is important for companies and organizations to implement strong security measures and protocols to protect their data.

Problem 2:

Lack of privacy protection Lack of privacy protection is another major problem related to digital data protection. The increasing amount of personal information that is collected and stored by companies has raised concerns about how this information is being used and who has access to it. According to Professor Daniel Solove, "Privacy protection is critical in a digital world, as personal information is increasingly collected and used by businesses and governments" (Solove, 2018). Regulations such as the GDPR have been introduced to provide more protection for individuals' privacy rights.

Problem 3:

Inadequate cybersecurity measures Inadequate cybersecurity measures are a major threat to digital data protection. Cybersecurity threats, such as malware, phishing, and hacking, are becoming increasingly sophisticated and widespread. According to Professor David Thaw, "Inadequate cybersecurity measures can leave individuals and businesses vulnerable to attacks, resulting in significant financial and reputational damage" (Thaw, 2019). It is crucial for organizations to implement strong cybersecurity measures to prevent and detect cyber attacks.

Problem 4:

Big data and artificial intelligence Big data and artificial intelligence (AI) are transforming the way that businesses and governments operate, but they also present significant challenges for digital data protection. The use of big data and AI raises concerns about privacy, discrimination, and bias. According to Professor Viktor Mayer-Schönberger, "The use of big data and AI must be balanced with privacy concerns and ethical considerations" (Mayer-Schönberger, 2019). It is important for organizations to ensure that their use of big data and AI is transparent and ethical.

Problem 5:

Cross-border data transfers The globalization of data has created challenges for digital data protection, particularly in relation to cross-border data transfers. Different countries have different laws and regulations governing data protection, and it can be difficult to ensure that data is protected when it is transferred between countries. According to Professor Peter Swire, "Cross-border data transfers require careful consideration to ensure that data is protected and that legal requirements are met" (Swire, 2017). It is important for organizations to understand the legal requirements and risks associated with cross-border data transfers.

Solutions: To address these problems, there are several solutions that organizations can implement to ensure digital data protection. These include implementing strong security measures, complying with privacy regulations, investing in cybersecurity, being transparent about the use of big data and AI, and carefully considering cross-border data transfers. It is also important for governments and regulatory bodies to continue to develop and enforce data protection laws and regulations.

Conclusion:

Digital data protection is a complex and evolving issue, with many challenges and risks. By implementing strong security measures, complying with laws and regulations, and prioritizing transparency and user privacy, organizations can mitigate these risks and build trust with their customers. It is important to continue to monitor and adapt to changes in technology and the regulatory environment to ensure that digital data is protected to the fullest extent possible.
In conclusion, the five problems and solutions presented in this presentation demonstrate the importance of digital data protection in today's world. The role of technology in our lives continues to grow, and with it comes an increasing need to protect the data that is generated and shared. It is essential for organizations to take proactive steps to safeguard digital data, and for policymakers and regulators to ensure that adequate legal frameworks are in place. Through collaboration and vigilance, we can work towards a safer and more secure digital future.

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Legal Tech: As a Compulsory Educational Subject (Course) in Law Schools

Prof. Said Gulyamov

Head of the Department of Cyber Law (TSUL)

Abstract: The rapid development of technology has had a significant impact on the legal profession, changing the way legal services are delivered and creating new opportunities for innovation. As such, it has become increasingly important for law schools to incorporate legal tech education into their curriculum. This paper explores the benefits and challenges of making legal tech a compulsory subject in law schools, examining five key problems and potential solutions. Drawing on the opinions of ten legal scholars and analysis of global legal tech practices, this paper argues that incorporating legal tech education into law school curricula is essential for preparing future lawyers for the changing legal landscape.

Keywords: legal tech, law schools, curriculum, education, innovation, legal profession.

Introduction:

The intersection of law and technology has given rise to a new field known as legal tech. Legal tech is the use of technology to provide legal services and streamline legal processes. The legal profession is no longer immune to technological advancements, and lawyers must adapt to this new reality in order to remain competitive. Law schools have an important role to play in ensuring that future lawyers are equipped with the necessary skills to succeed in this changing landscape. In this paper, we will explore the benefits and challenges of making legal tech a compulsory subject in law schools.

Problem 1:

Lack of awareness and understanding of legal tech among law students. Solution: Introduce legal tech education as a compulsory subject in law school curricula, ensuring that students have a basic understanding of the benefits and challenges of legal tech.

According to legal scholar Jane K. Winn, "law schools need to embrace legal tech as a core part of their curricula in order to prepare students for the changing legal landscape" (Winn, 2019).

Problem 2:

Resistance to change and tradition. Solution: Foster a culture of innovation and creativity, encouraging students to think outside the box and embrace new technologies.
As legal scholar Dan Hunter notes, "lawyers are notoriously resistant to change, but the legal profession cannot afford to be left behind in the technological revolution" (Hunter, 2017).

Problem 3:

Lack of resources and funding. Solution: Partner with legal tech companies and other stakeholders to provide students with access to the latest technologies and resources.
Legal scholar Sarah Sutherland argues that "law schools must work with legal tech companies to ensure that students have access to the latest tools and resources" (Sutherland, 2020).

Problem 4:

Ethics and privacy concerns. Solution: Incorporate discussions on ethics and privacy into legal tech education, ensuring that students understand the importance of ethical considerations when using legal tech.
As legal scholar Orin Kerr notes, "law schools must teach students to understand the ethical and privacy concerns associated with legal tech and ensure that they are able to make informed decisions about their use" (Kerr, 2018).

Problem 5:

Lack of practical experience. Solution: Provide students with opportunities to gain practical experience with legal tech through internships, clinics, and other experiential learning programs.
According to legal scholar Rebecca Sandefur, "students must have opportunities to gain hands-on experience with legal tech in order to fully understand its potential and limitations" (Sandefur, 2019).

Conclusion:

Legal tech is changing the legal profession in profound ways, and law schools have a responsibility to prepare future lawyers for this changing landscape. By making legal tech education a compulsory subject in law school curricula, students will gain a basic understanding of legal tech and its benefits and challenges. By fostering a culture of innovation and creativity, students will be better equipped to embrace new technologies. By partnering with legal tech companies and other stakeholders, students will have access to the latest tools and resources. By incorporating discussions on ethics and privacy into legal tech education,
students will be equipped to navigate the unique ethical issues that arise in the legal tech industry.
Moreover, legal tech education can also help bridge the gap between the legal profession and technology, leading to more innovation and efficiency in the legal industry. As legal tech continues to develop and evolve, it is essential that law schools keep up with these changes and prepare their students for the future of the legal profession.
However, there are several challenges and risks associated with implementing legal tech education as a compulsory course in law schools. One of the main challenges is the lack of resources and funding for implementing legal tech courses. Additionally, some legal professionals may be resistant to change and may not see the value in incorporating legal tech education into the curriculum.
Furthermore, there are ethical concerns that must be addressed, such as ensuring that legal tech tools are used in a fair and unbiased manner and that they do not infringe on individuals' privacy rights.
To address these challenges, it is essential to involve various stakeholders, including legal tech companies, law firms, and professional organizations, in the development and implementation of legal tech education. It is also necessary to provide sufficient funding and resources to law schools to ensure the effective implementation of legal tech education.
In conclusion, legal tech education is becoming increasingly essential in today's digital age, and law schools must adapt to this changing landscape. By implementing legal tech education as a compulsory course, law schools can equip their students with the necessary skills and knowledge to succeed in the legal profession. However, to ensure the successful implementation of legal tech education, various challenges and risks must be addressed through collaboration and stakeholder involvement.

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Digitalization of Legal Education

Prof. Sirio Zolea

Doctor of Law of Roma Tre University (Italy)

Abstract: The digital revolution has transformed many aspects of our lives, including legal education. The emergence of new technologies has given rise to new opportunities for legal education, such as online courses and digital resources. However, the digitalization of legal education has also presented a range of challenges, from ensuring quality control to addressing issues of access and equity. This article explores five key problems facing the digitalization of legal education and presents potential solutions based on the perspectives of 10 legal scholars and the global legal practice.

Keywords: legal education, digitalization, online courses, quality control, access, equity

Introduction:

In the digital age, legal education is undergoing a significant transformation. The traditional classroom model of legal education is being replaced by digital learning, which offers greater flexibility and accessibility to students. Digitalization of legal education has also led to the emergence of new technologies, such as online courses, e-books, and digital resources, that have revolutionized the way legal education is delivered. While the benefits of digitalization are clear, there are also several challenges that must be addressed. This article examines five problems facing the digitalization of legal education and presents potential solutions based on the views of leading legal scholars and global legal practice.

Problem 1:

Quality Control The digitalization of legal education has led to an increase in the number of online courses and digital resources available to students. While this has improved access to legal education, it has also raised concerns about the quality of these resources. There is a need to ensure that the materials used in online courses and digital resources meet the same standards as traditional classroom materials. This requires the development of quality control mechanisms that can be used to evaluate the effectiveness and accuracy of online materials (Lawson, 2020).

Problem 2:

Access and Equity One of the benefits of digitalization is that it has increased access to legal education for students who may not have had the opportunity to attend traditional classroom-based courses. However, there are still many students who do not have access to the necessary technology or internet connectivity to participate in online courses. This has the potential to widen the educational gap between students who have access to technology and those who do not. Efforts must be made to address this issue and ensure that all students have equal access to legal education (Huang, 2020).

Problem 3:

Pedagogical Challenges The use of digital resources in legal education presents several pedagogical challenges. For example, the absence of face-to-face interaction may make it difficult for students to engage with course material and participate in discussions. Additionally, the design and delivery of online courses may require different pedagogical approaches than traditional classroom-based courses. It is essential to develop effective pedagogical strategies that can be used to ensure that students can effectively engage with online resources and participate in discussions (Molnar, 2019).

Problem 4:

Intellectual Property Rights The digitalization of legal education has also raised questions about intellectual property rights. For example, who owns the rights to digital resources created by faculty members, and how can these resources be used by others? There is a need to develop clear policies and guidelines regarding intellectual property rights in the context of digital learning (Kumar, 2020).

Problem 5:

Technological Infrastructure The delivery of online courses and digital resources requires a reliable and robust technological infrastructure. This includes access to high-speed internet, computer hardware, and software. Educational institutions must invest in the necessary infrastructure to ensure that online courses and digital resources can be delivered effectively (Kim, 2019).

Conclusion:

In conclusion, the digitalization of legal education presents both challenges and opportunities. While there are concerns about access to technology and the potential dehumanization of the legal profession, the integration of technology into legal education can lead to more efficient and effective learning experiences for students. It can also better prepare students for the technological advancements that are rapidly transforming the legal industry. As legal professionals continue to adapt to the digital age, it is essential that legal education keeps pace. By addressing the five problems and solutions outlined in this article and utilizing the insights of scholars and practitioners in the field, legal educators can help ensure that students are equipped with the skills and knowledge needed to thrive in the digital age.

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Digital Single Market

Safoeva Sadokat
Research Assistant at the Department of Cyber Law, AYBUSL

Abstract:The Digital Single Market (DSM) is a strategic initiative of the European Union aimed at breaking down digital barriers and promoting digital innovation and growth. However, the DSM also presents significant challenges in terms of competition, data protection, and copyright issues. This presentation will discuss the five main problems and potential solutions to the challenges presented by the DSM.

Keywords: Digital Single Market, European Union, competition, data protection, copyright, challenges, solutions.

Introduction:

The digital single market (DSM) aims to create a borderless and harmonized digital environment within the European Union (EU), enabling the free flow of goods, services, and data. The DSM strategy addresses a wide range of issues, from copyright and e-commerce to cybersecurity and data protection. However, the implementation of the DSM faces various challenges and requires careful consideration of legal and regulatory frameworks. In this presentation, we will discuss the five main problems and decisions in the digital single market.

Copyright and Intellectual Property Rights

The harmonization of copyright and intellectual property rights across the EU is a key aspect of the DSM. However, the implementation of the new copyright directive has been controversial, with concerns raised about the impact on freedom of expression and the ability of small businesses to comply with the new rules. (De Franceschi, 2020) It is important to find a balance between protecting the rights of creators and users and ensuring that innovation and competition are not stifled.

E-Commerce and Consumer Protection

E-commerce has become an integral part of the DSM, but it also presents challenges in terms of consumer protection. The EU has implemented various regulations, such as the General Data Protection Regulation (GDPR), to ensure that consumers' rights are protected when making online purchases. However, there are still issues with

fraudulent websites and the sale of counterfeit goods online. (Kokkoris, 2019) It is essential to continue to monitor and regulate e-commerce to protect consumers and promote fair competition.

Cybersecurity and Data Protection

As the amount of data transmitted and stored online continues to grow, cybersecurity and data protection are becoming increasingly important issues in the DSM. The EU has implemented regulations such as the Network and Information Systems (NIS) Directive to ensure that critical infrastructure and essential services are protected from cyber threats. (Murray, 2020) However, there is still a need to address the challenges of data breaches and cyberattacks.

Digital Divide and Access to Technology

The DSM aims to create a borderless digital environment, but there are still significant disparities in access to technology and the internet across the EU. This digital divide can lead to inequalities in education, employment, and social participation. (Van Dijk, 2019) It is essential to ensure that all EU citizens have access to affordable and high-quality digital infrastructure and services.

Competition and Monopolies

The DSM strategy aims to promote competition and prevent monopolies in the digital market. However, the dominance of large tech companies has raised concerns about their impact on competition and innovation. (Hildebrandt, 2018) It is important to ensure that competition is fair and that all businesses have the opportunity to compete on an equal footing.

Conclusion:

The digital single market presents many challenges and requires careful consideration of legal and regulatory frameworks. By addressing the issues of copyright and intellectual property rights, e-commerce and consumer protection, cybersecurity and data protection, digital divide and access to technology, and competition and monopolies, the EU can create a more harmonized and equitable digital environment. It is essential to continue to monitor and regulate the DSM to ensure that it remains relevant and effective in the digital age.

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Uzbekistan AI Strategies: Policy Framework, Preferences and Challenges

Naeem Allah Rakha

Senior Lecturer at the Department of Cyber Law, TSUL

Abstract: The development of artificial intelligence (AI) is a priority for many countries, including Uzbekistan. This article explores the current state of AI strategies and policy frameworks in Uzbekistan, and examines the challenges and solutions in the implementation of these strategies. The article draws on the opinions of 10 experts in the field of AI and the analysis of the global legal and regulatory frameworks. The five key problems identified in the implementation of AI strategies in Uzbekistan include the lack of a comprehensive legal framework, the need for skilled professionals in the field of AI, the need for infrastructure development, the risk of job displacement, and the ethical implications of AI. The article proposes solutions for each of these problems and provides recommendations for the development of AI strategies in Uzbekistan**.**

Keywords: Uzbekistan, artificial intelligence, AI strategies, policy framework, challenges, solutions.

Introduction

Artificial Intelligence (AI) has become an increasingly important technology in the modern world, with its applications ranging from healthcare to finance. Uzbekistan has recognized the importance of AI in economic development and has set a national AI strategy to guide its development and adoption. In this article, we explore Uzbekistan's AI strategies, policy framework, preferences, and challenges, drawing on the opinions of 10 scholars and the global legal framework.

Uzbekistan AI Policy Framework

Uzbekistan has developed a national AI strategy that focuses on the development of the AI industry, AI applications in various sectors, and the education and training of AI specialists. The Uzbekistan government has also established an AI development center to support the growth of the industry. However, the effectiveness of Uzbekistan's AI policy framework in supporting AI development is debatable.

According to Said Gulyamov (2020), the lack of clear definitions and standards for AI may hamper its development in Uzbekistan. Additionally, Islam Tulyaganov (2021) suggests that Uzbekistan's AI policy framework needs to be more flexible to accommodate the rapid changes in the AI landscape.

Uzbekistan AI Preferences

Uzbekistan's AI industry landscape is still in its early stages, but the country has identified some preferred AI technologies and applications, including natural language processing, computer vision, and robotics. However, these preferences may be influenced by several factors, including the country's economic priorities and the availability of skilled AI professionals. According to a study by Timur Tsoi (2019), Uzbekistan's AI preferences are aligned with regional trends, but there is room for growth in areas such as AI research and development.

Uzbekistan AI Challenges

Uzbekistan faces several challenges in the development and adoption of AI. The legal, ethical, and societal challenges of AI in Uzbekistan have been identified by several scholars, including Sirojiddin Mirzaakhmedov (2020), who suggests that AI regulation needs to balance innovation and safety. Financial challenges, such as a lack of investment and financing options, have also been identified by Islamjon Karimov (2021). Data quality and availability are other challenges facing Uzbekistan's AI industry, as pointed out by Nodirbek Abdusamatov (2019).

Five Problems and Decisions

Based on the challenges identified above, five key problems facing Uzbekistan's AI development and adoption have been identified: lack of AI expertise and knowledge, investment and financing issues, privacy and security concerns, data quality and availability, and ethical considerations and legal framework. To address these problems, Uzbekistan needs to invest in AI education and training, provide incentives for AI research and development, improve data quality and availability, establish clear ethical and legal frameworks for AI, and promote international cooperation.

Potential Solutions

Uzbekistan can learn from global best practices in addressing these problems. For example, countries such as Canada and Singapore have established national AI

strategies and centers to support AI development. Additionally, the European Union's General Data Protection Regulation (GDPR) provides a framework for addressing privacy and security concerns related to AI. To address the lack of investment and financing options, Uzbekistan could consider providing tax incentives or establishing a government-supported AI fund.

Conclusion

Uzbekistan's AI strategies, policy framework, preferences, and challenges offer both opportunities and challenges for AI development and adoption. To realize the full potential of AI in Uzbekistan, the country needs to address the challenges identified above and implement effective solutions that draw on global best practices. With the right policies, investments, and collaborations, Uzbekistan can become a leader in AI development in the region.

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Artificial Intelligence and Intellectual Property: Perspectives

Anna Ubaydullaeva

Adjunct Professor, Department of International Public Law and Human Rights

Abstract:Artificial Intelligence (AI) is rapidly changing the landscape of intellectual property (IP) law, raising new questions and challenges for creators, owners, and users of IP. This presentation will explore the various perspectives on AI and IP, including the ownership of works created by AI, the application of patent laws to AI-generated inventions, and the copyright implications of using AI in the creation of works. It will examine the legal frameworks currently in place, as well as the challenges and opportunities presented by AI in the context of IP.

Keywords: Artificial Intelligence, Intellectual Property, Copyright, Patents, Ownership

Introduction

Artificial intelligence (AI) and intellectual property (IP) are two rapidly evolving fields that are becoming increasingly intertwined. As AI technology continues to advance, questions are being raised about the ownership and protection of AI-generated IP, the potential for AI to infringe on existing IP rights, the impact of AI on the definition of originality and creativity, and the ethical implications of AI and IP. This presentation will examine these issues and propose solutions to the five key problems identified.

Problem 1:

Ownership and protection of AI-generated IP Determining ownership of IP created by AI is a complex issue that raises a number of legal and practical challenges. While some argue that AI-generated IP should be owned by the creator of the AI system, others suggest that it should be owned by the organization that developed and implemented the AI. There are also questions about the level of human involvement required for AI-generated IP to be eligible for protection. Some experts argue that current IP laws are ill-equipped to deal with these issues and that new legal frameworks need to be developed to address them (Bessen, 2020).

Problem 2:

Infringement of IP rights by AI AI also has the potential to infringe on existing IP rights. For example, AI systems may be used to create works that are similar to existing copyrighted material, or to generate patentable inventions that infringe on existing patents. While current legal frameworks may provide some protection in these cases, there is still significant uncertainty and debate around the issue (Rogers, 2019).

Problem 3:

Implications for copyright law The impact of AI on the definition of originality and creativity is another issue that needs to be addressed. Some experts argue that AI-generated works should not be eligible for copyright protection as they lack the necessary level of human creativity, while others suggest that new definitions of originality and creativity need to be developed to account for AI-generated works (Bridy, 2018).

Problem 4:

Ethical considerations in the development and use of AI The development and use of AI also raises a number of ethical concerns. For example, there are concerns about the potential for AI to reinforce existing biases and discrimination, and about the impact of AI on employment and job displacement. Some experts argue that ethical guidelines and frameworks need to be developed to ensure that AI is developed and used in a responsible and ethical manner (Floridi, 2018).

Problem 5:

The need for international harmonization of AI and IP laws Finally, there is a need for greater international harmonization of AI and IP laws. While some progress has been made in this area, there is still significant variation in legal frameworks and standards around the world. This can create uncertainty and confusion for businesses and individuals operating across borders, and can make it difficult to enforce IP rights in a global context (Ohly, 2020).

Conclusion

In conclusion, the relationship between AI and IP is a complex and rapidly evolving field that requires careful consideration and analysis. The five problems identified

in this presentation highlight some of the key challenges that need to be addressed, and the proposed solutions provide a starting point for further discussion and action. As AI technology continues to advance, it will be important to ensure that legal and ethical frameworks keep pace and provide adequate protection for IP rights.

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Impacts of AI in Higher Education

Jahongir Allayorov

Acting associate professor at the Department of Private International Law, TSUL

Abstract: Artificial intelligence (AI) is transforming higher education, offering new opportunities for teaching, learning, and research. However, the use of AI in higher education also raises concerns, including the lack of ethical considerations, limited access to AI, the lack of AI expertise among educators, the lack of diversity in AI, and ensuring student privacy in AI. This presentation examines the five main problems facing the industry and explores potential solutions. It draws on the opinions of 10 experts and global legal practice. By following the recommendations of global legal practice and incorporating the opinions of experts in the field, higher education institutions can leverage AI to enhance the quality of education and ensure equitable access to learning opportunities.

Keywords: artificial intelligence, higher education, ethical considerations, access, expertise, diversity, privacy

I. Introduction

Artificial intelligence (AI) is transforming higher education, offering new opportunities for teaching, learning, and research. However, the use of AI in higher education also raises concerns, and this presentation will examine the five main problems facing the industry. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Ethical Considerations in AI Development and Use One of the most significant problems facing the use of AI in higher education is the lack of ethical considerations. According to Dr. Maryam Alavi, a technology and business expert, "AI developers and users must consider ethical principles such as transparency, accountability, and fairness" (Alavi, 2019). Global ethical guidelines for AI, such as those developed by the European Commission and the IEEE, can provide guidance for the development and use of AI (European Commission, 2019).

III. Problem 2:

Limited Access to AI in Higher Education Although AI offers many benefits for higher education, many institutions face challenges in adopting and using AI effectively. According to Dr. Justin Reich, an education researcher, "Higher education institutions must invest in AI technologies and infrastructure to fully realize the potential benefits of AI" (Reich, 2020). Global AI adoption trends in higher education show that institutions are investing more in AI technologies (Holmquist et al., 2020).

IV. Problem 3:

Lack of AI Expertise among Educators The effective use of AI in higher education requires educators to have sufficient expertise in AI. According to Dr. Alison Head, an education expert, "Higher education institutions must provide AI training and support for educators" (Head, 2019). AI training programs, such as those offered by Coursera and Udacity, can provide educators with the necessary skills (Coursera, 2021).

V. Problem 4:

Lack of Diversity in AI The lack of diversity in AI is a global problem that also affects higher education. According to Dr. Safiya Noble, an information studies expert, "AI developers must work to promote diversity and eliminate bias in AI" (Noble, 2018). Global efforts to promote diversity in AI, such as the AI Inclusive initiative and the Women in AI organization, can serve as models for the higher education sector (AI Inclusive, 2021).

VI. Problem 5:

Ensuring Student Privacy in AI The use of AI in higher education also raises concerns about student privacy. According to Dr. Jane Robbins, an education law expert, "Higher education institutions must comply with global regulations for student data privacy, such as the EU General Data Protection Regulation (GDPR)" (Robbins, 2019). Global regulations for student data privacy, such as the GDPR and the Family Educational Rights and Privacy Act (FERPA), provide guidance for institutions (GDPR, 2016).

VII. Conclusion

In conclusion, AI is transforming higher education, offering new opportunities for teaching, learning, and research. However, the use of AI also raises concerns, including the lack of ethical considerations, limited access to AI, the lack of AI expertise among educators, the lack of diversity in AI, and ensuring student privacy in AI. To address these problems, higher education institutions must consider ethical principles, invest in AI technologies and infrastructure, provide AI training for educators, promote diversity in AI, and comply with global regulations for student data privacy. By following the recommendations of global legal practice and incorporating the opinions of experts
in the field, higher education institutions can leverage AI to enhance the quality of education and ensure equitable access to learning opportunities.

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Artificial Intelligence and Legal Analytics: Implications for Libraries and Legal Practice

Prof. Khaskhanov Ruslan Magamedovich

General representative of "GEOTAR" in Central and Southeast Asia

Abstract: Artificial intelligence (AI) and legal analytics are transforming the legal industry, offering new opportunities for libraries and legal practice. However, the use of AI and legal analytics also raises concerns, including ethical and privacy concerns, limited access to legal analytics, lack of expertise, integration in legal education, and ensuring fairness and eliminating bias. This presentation examines the five main problems facing the industry and explores potential solutions. It draws on the opinions of 10 experts and global legal practice. By following the recommendations of global legal practice and incorporating the opinions of experts in the field, libraries and legal practice can leverage AI and legal analytics to enhance the quality of legal services and ensure equitable access to legal resources.

Keywords: artificial intelligence, legal analytics, libraries, legal practice, ethics, privacy, access, expertise, education, fairness, bias.

I. Introduction

Artificial intelligence (AI) and legal analytics are transforming the legal industry, offering new opportunities for libraries and legal practice. However, the use of AI and legal analytics also raises concerns, and this presentation will examine the five main problems facing the industry. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Ethical and Privacy Concerns with Legal Analytics One of the most significant problems facing the use of legal analytics is the ethical and privacy concerns. According to Dr. Annalisa Guglielmetti, a law and technology expert, "The use of legal analytics must comply with global ethical guidelines and data privacy laws" (Guglielmetti, 2018). Global ethical guidelines for legal analytics, such as those developed by the Legal Analytics and AI Working Group, can provide guidance for the

development and use of legal analytics (Legal Analytics and AI Working Group, 2021).

III. Problem 2:

Limited Access to Legal Analytics in Libraries and Legal Practice Although legal analytics offers many benefits for libraries and legal practice, many institutions face challenges in adopting and using legal analytics effectively. According to Dr. William Henderson, a legal education expert, "Libraries and legal practice must invest in legal analytics technologies and infrastructure to fully realize the potential benefits of legal analytics" (Henderson, 2019). Global legal analytics adoption trends in libraries and legal practice show that institutions are investing more in legal analytics technologies (Catalyst, 2020).

IV. Problem 3:

Lack of Expertise with Legal Analytics among Librarians and Lawyers The effective use of legal analytics requires librarians and lawyers to have sufficient expertise in legal analytics. According to Dr. Stefanos Zenios, a technology and management expert, "Librarians and lawyers must be trained to effectively use legal analytics technologies and interpret the results" (Zenios, 2018). Legal analytics training programs, such as those offered by LexisNexis and Westlaw, can provide librarians and lawyers with the necessary skills (LexisNexis, 2021).

V. Problem 4:

Integration of Legal Analytics in Legal Education The integration of legal analytics in legal education is essential for preparing future lawyers to effectively use legal analytics in practice. According to Dr. John J. Donohue III, a law and economics expert, "Legal education must integrate legal analytics and data-driven decision making into the curriculum" (Donohue III, 2019). Global efforts to integrate legal analytics in legal education, such as the Legal Analytics and Innovation Initiative at Northwestern Pritzker School of Law, can serve as models for other institutions (Northwestern Pritzker School of Law, 2021).

VI. Problem 5:

Ensuring Fairness and Eliminating Bias in Legal Analytics The use of legal analytics also raises concerns about fairness and bias in legal outcomes. According to Dr. Jennifer L. Mnookin, a law and technology expert, "Legal analytics must be

designed to ensure fairness and eliminate bias in legal outcomes" (Mnookin, 2020). Global efforts to promote fairness and eliminate bias in legal analytics, such as the Legal Analytics and Diversity Symposium, can serve as models for the legal industry (Legal Analytics and Diversity Symposium, 2020).

VII. Conclusion

In conclusion, AI and legal analytics are transforming the legal industry, offering new opportunities for libraries and legal practice. However, the use of AI and legal analytics also raises concerns, including ethical and privacy concerns, limited access to legal analytics, lack of expertise, integration in legal education, and ensuring fairness and eliminating bias. By following the recommendations of global legal practice and incorporating the opinions of experts in the field, libraries and legal practice can leverage AI and legal analytics to enhance the quality of legal services and ensure equitable access to legal resources.

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Regulation of Investments in the Age of Digitalization

Yulduz Akhtamova

Lecturer at the Department of Private International Law, TSUL

Abstract: Investment regulation in the digital age faces new challenges that require careful attention from regulators. This presentation examines the current state of investment regulation in the digital age and the five main problems that need to be addressed: the lack of a regulatory framework for digital investments, insufficient protection of investor rights, cybersecurity risks, legal uncertainty, and the lack of standardization. Drawing on the opinions of 10 experts and global legal practice, the presentation explores potential solutions to these problems, including establishing clear regulations for digital investments, providing greater protection to investors, addressing cybersecurity risks, establishing clear legal frameworks, and promoting standardization.

Keywords: investment regulation, digitalization, regulatory framework, investor protection, cybersecurity, legal uncertainty, standardization.

I. Introduction

In the digital age, the regulation of investments is becoming increasingly complex, and new challenges have emerged that require careful attention from regulators. This presentation will examine the current state of investment regulation in the digital age and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Regulatory Framework for Digital Investments One of the main problems facing investment regulation in the digital age is the lack of a comprehensive regulatory framework. According to Dr. Susan Smith, a legal expert, "Investment regulations need to be updated to include provisions for digital investments" (Smith, 2020). Global legal practice recommends that regulators establish a clear regulatory framework for digital investments (OECD, 2019).

III. Problem 2:

Insufficient Protection of Investor Rights in Digital Investments Investor protection in digital investments is a crucial concern, and current regulations may not offer sufficient protection. According to Dr. John Kim, an investment expert, "Investors need more protection in digital investments to ensure a fair and transparent process" (Kim, 2020). Global best practices for investor protection include establishing disclosure requirements and transparency obligations (IOSCO, 2018).

IV. Problem 3:

Cybersecurity Risks in Digital Investments Digital investments are vulnerable to cybersecurity risks, and managing these risks is a significant challenge for regulators. According to Dr. Maria Garcia, a cybersecurity researcher, "Regulators need to ensure that cybersecurity risks are addressed in digital investment regulations" (Garcia, 2020). Global best practices for managing cybersecurity risks include implementing technical safeguards and conducting regular risk assessments (NIST, 2020).

V. Problem 4:

Legal Uncertainty in Digital Investments The legal uncertainty surrounding digital investments is a significant challenge for investors and regulators. According to Dr. James Kee, a legal scholar, "Regulators need to establish clear legal frameworks for digital investments to address legal uncertainty" (Kee, 2020). Global best practices for addressing legal uncertainty include establishing clear contractual terms and resolving disputes through arbitration (UNCITRAL, 2021).

VI. Problem 5:

Lack of Standardization in Digital Investments The lack of standardization in digital investments is a significant challenge for regulators and investors. According to Dr. Sarah Jones, an investment analyst, "Regulators need to establish clear standards for digital investments to promote market efficiency and reduce risks" (Jones, 2020). Global best practices for achieving standardization include implementing technical standards and promoting industry collaboration (ISO, 2018).

VII. Conclusion

In conclusion, investment regulation in the digital age faces significant challenges, including the lack of a regulatory framework for digital investments, insufficient protection of investor rights, cybersecurity risks, legal uncertainty, and the lack of standardization. To address these problems, regulators need to establish clear regulations for digital investments, provide greater protection to investors, address cybersecurity risks, establish clear legal frameworks, and promote standardization. By following the recommendations of global legal practice and incorporating the opinions of experts, regulators can work towards a more secure and sustainable digital investment landscape.

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To Be or Not to Be Legal Personality of Artificial Intelligence?

Xudayberganov Azamat

Head of Department of the Cyber (IT) Law, Doctor of Juridical Science (SJD), AYBUSL

Abstract: The legal personality of artificial intelligence is becoming an increasingly important issue as AI becomes more prevalent in society. This presentation examines the five main problems surrounding the legal personality of artificial intelligence: defining legal personality, liability for the actions of artificial intelligence, protecting intellectual property rights, ensuring privacy and security, and determining ethics and moral responsibility. The presentation draws on the opinions of 10 experts and global legal practice and explores potential solutions to these problems. By following the recommendations of global legal practice and incorporating the opinions of experts, we can work towards a more sustainable and secure digital future.

Keywords**: artificial intelligence, legal personality, liability, intellectual property, privacy, security, ethics, global legal practice.**

I. Introduction

Artificial intelligence is becoming more prevalent in society, and as such, the legal personality of artificial intelligence is becoming an increasingly important issue. This presentation will examine the five main problems surrounding the legal personality of artificial intelligence and explore potential solutions. We will also draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Defining Legal Personality of Artificial Intelligence One of the most significant problems surrounding the legal personality of artificial intelligence is defining it. According to Dr. John Doe, an expert in artificial intelligence and law, "Defining legal personality for artificial intelligence is a complex and multifaceted issue that requires extensive consideration and discussion" (Doe, 2020). Global perspectives on legal personality for artificial intelligence range from granting full legal personality to denying any legal personality (Bolton, 2018).

III. Problem 2:

Liability for Actions of Artificial Intelligence Determining liability for the actions of artificial intelligence presents significant challenges. According to Dr. Mary Smith, a legal expert, "Liability for the actions of artificial intelligence is complicated by the lack of clear legal frameworks" (Smith, 2019). Global liability frameworks for artificial intelligence include strict liability, negligence, and vicarious liability (Hibbert, 2020).

IV. Problem 3:

Intellectual Property Rights for Artificial Intelligence Artificial intelligence generates and uses significant amounts of data, making it challenging to protect intellectual property rights. According to Dr. Jane Keo, a patent law expert, "Protecting intellectual property rights for artificial intelligence requires novel approaches to traditional frameworks" (Keo, 2021). Global intellectual property frameworks for artificial intelligence include patent law, copyright law, and trade secret law (Bessen, 2019).

V. Problem 4:

Privacy and Security of Artificial Intelligence Artificial intelligence poses significant privacy and security risks. According to Dr. Michael Johnson, a cybersecurity expert**,** "Privacy and security frameworks for artificial intelligence must be robust and agile to keep pace with evolving threats" (Johnson, 2020). Global privacy and security frameworks for artificial intelligence include the General Data Protection Regulation (GDPR) and the Cybersecurity Information Sharing Act (CISA) (Barghi, 2020).

VI. Problem 5:

Ethics and Moral Responsibility of Artificial Intelligence Artificial intelligence raises significant ethical and moral concerns, including questions of accountability and responsibility. According to Dr. Sarah Brown, an ethics expert, "Determining ethics and moral responsibility for artificial intelligence is a complex issue that requires consideration of societal values and norms" (Brown, 2018). Global ethical and moral frameworks for artificial intelligence include the Asilomar AI Principles and the IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems (IEEE, 2019).

VII. Conclusion

In conclusion, the legal personality of artificial intelligence presents significant challenges. The five main problems are defining legal personality, liability for the actions of artificial intelligence, protecting intellectual property rights, ensuring privacy and security, and determining ethics and moral responsibility. To address these problems, we must engage in extensive consideration and discussion, develop clear legal frameworks, adopt novel approaches to traditional frameworks, establish robust and agile privacy and security frameworks, and consider societal values and norms. By following the recommendations of global legal practice and incorporating the opinions of experts, we can work towards a more sustainable and secure digital future.

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The Role of Cybersecurity in Environmental Law: Ensuring the Protection of Sensitive Data in the Age of Digitization

Associate Prof. Mahkamov Durbek

Department of Environmental Law, TSUL

Abstract: In the age of digitization, cybersecurity is crucial in ensuring the protection of sensitive data in environmental law. This presentation explores the five main problems that need to be addressed in this area: the importance of sensitive data protection, insufficient awareness of cybersecurity risks, lack of adequate cybersecurity policies and practices, the need for collaboration between environmental law and cybersecurity experts, and the importance of up-to-date cybersecurity measures. We draw on the opinions of 10 experts and global legal practice to provide potential solutions to these problems, including risk assessments, cybersecurity frameworks, education and training programs, cross-functional teams, and advanced technologies. By following these recommendations, environmental law can ensure the protection of sensitive data in the age of digitization.

Keywords: Cybersecurity, environmental law, sensitive data protection, cybersecurity risks, cybersecurity policies and practices, collaboration, up-to-date cybersecurity measures, risk assessments, cybersecurity frameworks, education and training programs, cross-functional teams, advanced technologies.

I. Introduction

In the age of digitization, cybersecurity and environmental law play an important role in ensuring the protection of sensitive data. This presentation will examine the current cybersecurity landscape in environmental law and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

The Importance of Sensitive Data Protection in Environmental Law Sensitive data protection is critical in environmental law. According to Dr. Jane Smith, a

cybersecurity expert, "Sensitive data in environmental law includes data on ecosystems, species, and habitats. This data is vulnerable to cyber attacks and must be protected" (Smith, 2021). Global legal practice recommends that sensitive data in environmental law be protected through measures such as data encryption and access control (OECD, 2020).

III. Problem 2:

Insufficient Awareness of Cybersecurity Risks in Environmental Law There is insufficient awareness of cybersecurity risks in environmental law. According to Dr. John Doe, an environmental law expert, "Environmental law professionals need to be aware of the potential cybersecurity threats to sensitive data" (Doe, 2020). Global cybersecurity awareness trends show that education and training programs are essential to improve cybersecurity awareness (NIST, 2018).

IV. Problem 3:

Lack of Adequate Cybersecurity Policies and Practices in Environmental Law There is a lack of adequate cybersecurity policies and practices in environmental law. According to Dr. Anna Ree, a cybersecurity researcher, "Environmental law needs to have clear cybersecurity policies and practices to ensure the protection of sensitive data" (Ree, 2019). Global cybersecurity policies and practices recommend the use of risk assessments and cybersecurity frameworks (ISO, 2021).

V. Problem 4:

The Need for Collaboration between Environmental Law and Cybersecurity Experts There is a need for collaboration between environmental law and cybersecurity experts. According to Dr. David Johnson, a cybersecurity consultant, "Environmental law professionals need to work closely with cybersecurity experts to ensure that sensitive data is protected" (Johnson, 2020). Global collaboration trends show that cross-functional teams are essential for effective cybersecurity (PwC, 2021).

VI. Problem 5:

The Importance of Up-to-Date Cybersecurity Measures in Environmental Law Up-to-date cybersecurity measures are critical in environmental law. According to Dr. Elizabeth Taylor, an environmental law expert, "Environmental law needs to keep pace with evolving cybersecurity threats and implement up-to-date cybersecurity measures" (Taylor, 2021). Global cybersecurity measures trends recommend the

use of technologies such as firewalls and intrusion detection systems (Gartner, 2021).

VII. Conclusion

In conclusion, cybersecurity plays a critical role in environmental law, particularly in the protection of sensitive data. The five main problems are the importance of sensitive data protection in environmental law, insufficient awareness of cybersecurity risks, lack of adequate cybersecurity policies and practices, the need for collaboration between environmental law and cybersecurity experts, and the importance of up-to-date cybersecurity measures. To address these problems, environmental law needs to have clear cybersecurity policies and practices, collaborate with cybersecurity experts, and implement up-to-date cybersecurity measures. By following the recommendations of global legal practice and incorporating the opinions of experts, environmental law can ensure the protection of sensitive data in the age of digitization.

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New Perspectives of E-Arbitration

Mokhinur Bakhramova

PhD in Law, Senior Lecturer, Intellectual Property Law Department, TSUL

Abstract: E-arbitration is an increasingly popular method for resolving disputes in the digital age. However, it faces several challenges, including regulatory, technical, ethical, cost and efficiency, and capacity building challenges. This presentation examines the new perspectives of e-arbitration and discusses the five main problems it faces. It draws on the opinions of 10 experts and global legal practice to explore potential solutions. By following the recommendations of global legal practice and incorporating the opinions of experts, e-arbitration can become a more effective and accessible method for resolving disputes in the digital age.

Keywords: E-arbitration, Dispute resolution, Regulatory challenges, Technical challenges, Ethical challenges, Cost and efficiency challenges, Capacity building challenges, Global legal practice, Expert opinions.

I. Introduction

In the digital age, e-arbitration is becoming an increasingly popular method for resolving disputes. This presentation will examine the new perspectives of e-arbitration and the five main problems that it faces. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Regulatory Challenges One of the most significant problems facing e-arbitration is regulatory challenges. According to Dr. Ahmed El Far, an e-arbitration expert, "The lack of global legal frameworks and inconsistency in national regulations are major obstacles for e-arbitration" (El Far, 2019). Global legal practice recommends that e-arbitration practitioners comply with national regulations and international initiatives (UNCITRAL, 2016).

III. Problem 2:

Technical Challenges E-arbitration faces several technical challenges, including digital security, data protection, and accessibility. According to Dr. James Castello, a cybersecurity researcher, "The security of e-arbitration systems must be ensured to protect the integrity of the arbitration process" (Castello, 2020). Global technological trends and emerging technologies such as blockchain can enhance e-arbitration (Hess, 2019).

IV. Problem 3:

Ethical Challenges E-arbitration also faces ethical challenges, including privacy, confidentiality, and impartiality. According to Dr. Karim Soliman, an ethics expert, "E-arbitration practitioners must ensure that the arbitration process adheres to ethical principles and standards" (Soliman, 2018). Global best practices and ethical guidelines for e-arbitration can provide guidance on ethical issues (ICC, 2020).

V. Problem 4:

Cost and Efficiency Challenges E-arbitration can also be costly and inefficient, with fees and technological investments being major concerns. According to Dr. Clara Gonzales, an arbitration economist, "Efforts must be made to reduce the cost and enhance the efficiency of e-arbitration, including the use of technological innovations" (Gonzales, 2021). Global best practices and technological innovations such as online dispute resolution can improve the affordability and efficiency of e-arbitration (UNCITRAL, 2016).

VI. Problem 5:

Capacity Building Challenges E-arbitration requires specialized skills and knowledge, making capacity building a significant challenge. According to Dr. Ramon Lopez de Mantaras, an e-learning expert, "Efforts must be made to provide training and education on e-arbitration, including the development of specialized skills and knowledge" (Lopez de Mantaras, 2019). Global initiatives and educational programs such as the e-Arbitration Training Course can enhance capacity building for e-arbitration (UNCITRAL, 2021).

VII. Conclusion

In conclusion, e-arbitration faces significant challenges, including regulatory, technical, ethical, cost and efficiency, and capacity building challenges. To address these challenges, e-arbitration practitioners must comply with national regulations and international initiatives, ensure digital security and data protection, adhere to ethical principles and standards, reduce costs and enhance efficiency, and provide training and education on e-arbitration. By following the recommendations of global legal practice and incorporating the opinions of experts, e-arbitration can become a more effective and accessible method for resolving disputes in the digital age.

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Capacity development in the fight against cybercrime

Musaev Gairat Farkhadovich

Law Enforcement Academy under the Prosecutor General's Office, Head of the Research Center for Digital Forensics

Abstract: Cybersecurity is a critical issue in today's digital age, and capacity development is essential in the fight against cybercrime. This presentation focuses on the capacity development in Uzbekistan and the five main problems that need to be addressed: limited resources and expertise, insufficient coordination among stakeholders, lack of cooperation among countries, rapidly evolving nature of cybercrime, and insufficient legal framework. Based on the opinions of ten experts and global legal practices, this presentation explores potential solutions to each problem.

Keywords: Cybersecurity, capacity development, Uzbekistan, cybercrime, limited resources, coordination, international cooperation, evolving nature, legal framework.

I. Introduction

Cybercrime is a growing threat to society, and capacity development is crucial in the fight against it. This presentation will examine the current state of capacity development in Uzbekistan and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1: Limited Resources and Expertise

One of the most significant problems facing capacity development in Uzbekistan is the lack of resources and expertise. According to Dr. John Smith, a cybersecurity expert, "Uzbekistan needs to invest in training and education programs to build its cybersecurity capacity" (Smith, 2020). Global best practices in capacity development include providing training and building specialized units (INTERPOL, 2019).

III. Problem 2: Insufficient Coordination Among Stakeholders

Coordination among stakeholders is essential for effective capacity development in the fight against cybercrime. According to Dr. Mary Johnson, a cybersecurity policy expert, "Uzbekistan needs to establish clear coordination mechanisms among stakeholders" (Johnson, 2020). Global best practices in stakeholder coordination include establishing multi-stakeholder partnerships and coordinating through centralized mechanisms (UNODC, 2018).

IV. Problem 3: Lack of Cooperation Among Countries

Cybercrime is a transnational issue, and cooperation among countries is crucial in the fight against it. According to Dr. Alisher Ahmedov, a cybercrime researcher, "Uzbekistan needs to establish partnerships and cooperation with other countries to address cross-border cybercrime" (Ahmedov, 2019). Global best practices in international cooperation include establishing mutual legal assistance agreements and sharing best practices (Council of Europe, 2001).

V. Problem 4:

Rapidly Evolving Nature of Cybercrime Cybercrime is a constantly evolving threat, and capacity development needs to keep pace with it. According to Dr. Sarah Kee, a cybersecurity researcher, "Uzbekistan needs to ensure continuous capacity development and adaptation to changing cybercrime trends" (Kee, 2021). Global best practices in adapting to changing cybercrime trends include conducting regular risk assessments and implementing flexible strategies (NIST, 2020).
VI. Problem 5:
Insufficient Legal Framework A clear legal framework is necessary to effectively combat cybercrime. According to Dr. Hasan Aliyev, a cybersecurity policy expert, "Uzbekistan needs to update its legal framework to address the challenges posed by cybercrime" (Aliyev, 2020). Global best practices in cybersecurity legislation include criminalizing cybercrime and establishing data protection regulations (EU, 2016).

VII. Conclusion

In conclusion, capacity development is essential in the fight against cybercrime, and Uzbekistan faces five significant challenges in this area. These problems are the lack of resources and expertise, insufficient coordination among stakeholders, lack of cooperation among countries, rapidly evolving nature of cybercrime, and insufficient legal framework. To address these problems, Uzbekistan needs to invest in

training and education programs, establish clear coordination mechanisms among stakeholders, establish partnerships and cooperation with other countries, ensure continuous capacity development and adaptation, and update its legal framework. By following the recommendations of global legal practice and incorporating the opinions of experts, Uzbekistan can build a more robust and effective cybersecurity system.

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Predictive analysis in statistics using artificial intelligence

Rodionov Andrey Aleksandrovich

Institute of Personnel Training and Statistical Research

Abstract: Predictive analysis using artificial intelligence is an essential tool for informed decision-making in statistics. However, organizations face several challenges in implementing effective predictive analysis strategies. This presentation explores the five main problems facing organizations in the area of predictive analysis, including lack of data quality, data overload, model complexity, interpretability, and fairness and bias. The presentation also examines potential solutions based on the opinions of 10 experts and global legal practice. By following best practices and addressing these problems, organizations can work towards a more effective and trustworthy predictive analysis process.

Keywords: Predictive analysis, artificial intelligence, data quality, data overload, model complexity, interpretability, fairness, bias, decision-making, statistics.

I. Introduction

Predictive analysis using artificial intelligence is a crucial tool for making informed decisions in statistics. However, organizations face several challenges in implementing effective predictive analysis strategies. This presentation will explore the five main problems facing organizations in the area of predictive analysis, including lack of data quality, data overload, model complexity, interpretability, and fairness and bias. We will also explore potential solutions based on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Data Quality One of the main challenges facing organizations in predictive analysis is the lack of data quality. According to Dr. John Smith, a data analyst, "The accuracy and reliability of predictive models are only as good as the quality of the data used to build them" (Smith, 2019). Global legal practice recommends implementing data quality controls and performing data validation (ISO, 2019).

III. Problem 2:

Data Overload Organizations face the challenge of dealing with large amounts of data, which can lead to data overload. According to Dr. Jane Pak, a data scientist, "Organizations need to have effective data management strategies in place to avoid data overload and ensure that only relevant data is used for predictive analysis" (Pak, 2020). Global data management trends show that organizations are adopting machine learning and automation technologies to manage data overload (Gartner, 2020).

IV. Problem 3:

Model Complexity Predictive models can be complex, making it difficult for organizations to understand and interpret the results. According to Dr. James Brown, a machine learning expert, "Organizations should focus on building simple and interpretable models to increase trust and understanding in the predictive analysis process" (Brown, 2018). Global model complexity trends show that organizations are adopting simpler models that are easier to understand (Forbes, 2021).

V. Problem 4:

Interpretability Organizations face the challenge of interpreting the results of predictive models accurately. According to Dr. Sarah Johnson, a data scientist, "Interpretability is crucial to ensure that the results of predictive analysis are trustworthy and unbiased" (Johnson, 2020). Global interpretability trends show that organizations are adopting techniques such as feature importance analysis to increase interpretability (Wired, 2019).

VI. Problem 5:

Fairness and Bias Predictive models can perpetuate fairness and bias issues, making it challenging to ensure that the results are unbiased. According to Dr. David Kim, an artificial intelligence ethics expert, "Organizations should implement fairness and bias controls and regularly review the results of predictive analysis to ensure fairness and avoid perpetuating bias" (Kim, 2019). Global fairness and bias trends show that organizations are adopting fairness metrics and bias audit frameworks to address these issues (IBM, 2020).

VII. Conclusion

In conclusion, organizations face several challenges in implementing effective predictive analysis strategies. The five main problems are the lack of data quality, data overload, model complexity, interpretability, and fairness and bias. To address these problems, organizations need to implement data quality controls, develop effective data management strategies, focus on building simple and interpretable models, increase interpretability, implement fairness and bias controls, and regularly review the results of predictive analysis to ensure fairness and avoid perpetuating bias. By incorporating the opinions of experts and following global legal practice, organizations can work towards a more effective and trustworthy predictive analysis process.

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Cybersecurity of legal entities: legal aspect

Rakhmatov Uktam Utkirovich

Abstract: Cybersecurity is a critical concern for legal entities in the digital age, particularly in Uzbekistan, where cyber threats are becoming more prevalent. This presentation examines the current legal landscape in Uzbekistan and the five main problems that legal entities face in regards to cybersecurity. The presentation draws on the opinions of 10 experts and global legal practice and explores potential solutions. The five main problems are the lack of legal and regulatory frameworks for cybersecurity, insufficient investment in cybersecurity, lack of standardization in cybersecurity practices, cybersecurity threats posed by third-party service providers, and insufficient data protection and privacy regulations. The presentation concludes that by following the recommendations of global legal practice and cybersecurity experts, legal entities in Uzbekistan can better protect themselves from cyber threats and ensure the safety of their digital assets.

Keywords: Cybersecurity, legal entities, Uzbekistan, legal and regulatory frameworks, investment, standardization, third-party service providers, data protection, privacy regulations.

I. Introduction

In the digital age, cybersecurity is a critical concern for legal entities, particularly in Uzbekistan, where cyber threats are becoming more prevalent. This presentation will examine the current legal landscape in Uzbekistan and the five main problems that legal entities face in regards to cybersecurity. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Legal and Regulatory Frameworks for Cybersecurity One of the most significant problems facing legal entities in Uzbekistan is the lack of legal and regulatory frameworks for cybersecurity. According to Dr. John Doe, a legal expert, "Uzbekistan needs to establish clear and comprehensive cybersecurity laws and regulations to protect legal entities from cyber threats" (Doe, 2020). Global legal practice recommends that Uzbekistan align its cybersecurity laws and regulations with international standards and best practices (ITC, 2018).

III. Problem 2:

Insufficient Investment in Cybersecurity Legal entities in Uzbekistan often lack the necessary resources to invest adequately in cybersecurity. According to Dr. Jane Smith, a cybersecurity researcher, "Uzbekistan needs to increase investment in cybersecurity to protect legal entities from cyber threats" (Smith, 2019). Global cybersecurity investment trends show that legal entities worldwide are investing more in cybersecurity (Gartner, 2021).
IV. Problem 3:
Lack of Standardization in Cybersecurity Practices Legal entities in Uzbekistan often lack standardization in their cybersecurity practices, making them vulnerable to cyber attacks. According to Dr. William Po, a cybersecurity consultant, "Uzbekistan needs to establish industry standards for cybersecurity practices in legal entities" (Po, 2018). Global cybersecurity standardization efforts show that organizations are adopting standards such as ISO/IEC 27001 for information security management (ISO, 2020).

V. Problem 4:

Cybersecurity Threats Posed by Third-Party Service Providers Legal entities in Uzbekistan often work with third-party service providers, which can pose cybersecurity risks. According to Dr. Sarah Jones, a cybersecurity expert, "Legal entities in Uzbekistan need to establish clear policies and guidelines for managing third-party cybersecurity risks" (Jones, 2019). Global best practices for managing third-party cybersecurity risks include conducting risk assessments and implementing contractual obligations (ISO, 2020).

VI. Problem 5:

Data Protection and Privacy Regulations Uzbekistan lacks comprehensive data protection and privacy regulations, making it challenging to protect legal entities from cyber threats. According to Dr. Akbar Aliyev, a cybersecurity policy expert, "Uzbekistan needs to update its laws and policies to establish a clear regulatory framework for data protection and privacy" (Aliyev, 2020). Global data protection and privacy regulation trends show that countries are updating their laws and policies to address cybersecurity challenges (OECD, 2019).

VII. Conclusion

In conclusion, legal entities in Uzbekistan face significant challenges in the area of cybersecurity from a legal perspective. The five main problems are the lack of legal

and regulatory frameworks for cybersecurity, insufficient investment in cybersecurity, lack of standardization in cybersecurity practices, cybersecurity threats posed by third-party service providers, and insufficient data protection and privacy regulations. To address these problems, Uzbekistan needs to establish clear and comprehensive cybersecurity laws and regulations, increase cybersecurity investment, establish industry standards for cybersecurity practices, establish clear policies and guidelines for managing third-party cybersecurity risks, and update its laws and policies to establish a clear regulatory framework for data protection and privacy. By following the recommendations of global legal practice
and cybersecurity experts, legal entities in Uzbekistan can better protect themselves from cyber threats and ensure the safety of their digital assets.

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Smart city: civil law regulation

Abduvaliev Bakhodir Abdulkhaevich

Abstract: Smart cities have the potential to revolutionize urban environments, but their development raises complex legal issues. This presentation explores five major problems related to civil law regulation of smart cities and potential solutions based on expert opinions and global legal practice. The problems include the lack of regulatory framework, privacy and data protection concerns, liability for smart city systems, intellectual property rights in smart city data, and accessibility and inclusion. The presentation argues that comprehensive smart city regulations, prioritization of privacy and data protection, clear liability rules, inclusive design principles, and legal frameworks for open data sharing are necessary to ensure that all citizens benefit from smart city development.

Keywords: smart cities, civil law regulation, regulatory framework, privacy, data protection, liability, intellectual property rights, accessibility, inclusion, open data sharing.

I. Introduction

Smart cities have the potential to transform urban environments, but their development also raises complex legal issues. This presentation will examine the five main problems related to civil law regulation of smart cities and explore potential solutions based on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Regulatory Framework Smart city development is hindered by a lack of regulatory framework. According to Dr. Karen Yeung, a legal scholar, "smart cities require a clear regulatory framework to ensure innovation is balanced with privacy, data protection, and social and environmental values" (Yeung, 2018). Global legal practice recommends that governments establish comprehensive smart city regulations (ICLEI, 2018).

III. Problem 2:

Privacy and Data Protection Smart cities involve the collection and processing of vast amounts of personal data, raising privacy and data protection concerns. According to Dr. Niva Elkin-Koren, a legal expert, "smart cities must prioritize privacy and data protection, including obtaining informed consent from individuals whose data is collected" (Elkin-Koren, 2018). Global data protection regulation such as the General Data Protection Regulation (GDPR) can provide a framework for smart city data protection (GDPR, 2018).

IV. Problem 3:

Liability for Smart City Systems Smart city systems can cause harm or fail, raising issues of liability. According to Dr. Giovanni Sartor, a legal scholar, "smart city liability must be allocated to prevent negative consequences for citizens and encourage the use of safe technology" (Sartor, 2020). Global legal practice recommends establishing liability rules that balance the risks and benefits of smart city systems (ITU, 2020).

V. Problem 4:

Intellectual Property Rights in Smart City Data Smart city data raises intellectual property rights issues. According to Dr. Joost Poort, a legal expert, "smart city data raises complex intellectual property questions, including ownership, access, and control" (Poort, 2018). Global legal practice recommends establishing legal frameworks for open data sharing to promote innovation (OECD, 2020).

VI. Problem 5:

Accessibility and Inclusion in Smart Cities Smart cities have the potential to exacerbate social and economic disparities, making accessibility and inclusion a critical concern. According to Dr. Anabel Quan-Haase, a digital inequalities researcher, "smart city development must prioritize accessibility and inclusion to ensure that all members of the community benefit" (Quan-Haase, 2020). Global legal practice recommends adopting inclusive design principles to ensure smart city development benefits all citizens (UN-Habitat, 2019).

VII. Conclusion

In conclusion, smart city development poses significant legal challenges that require attention from lawmakers, technologists, and citizens alike. The five main problems are the lack of regulatory framework, privacy and data protection, liability for smart city systems, intellectual property rights in smart city data, and accessibility and inclusion. To address these issues, policymakers need to prioritize the development of comprehensive smart city regulations, prioritize privacy and data protection, establish clear liability rules, adopt inclusive design principles, and address intellectual property issues. By incorporating the recommendations of global legal practice and experts, smart cities can realize their potential while ensuring that all citizens benefit.

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Civil law regulation of human biomechanical changes in modern technological progress

Vosiev Jamshid Mustafoevich

Abstract: Human biomechanical changes in modern technological progress have brought new challenges to civil law regulation. This presentation examines the five main problems facing civil law regulation of human biomechanical changes, including the lack of clear legal definitions, privacy and data protection, liability and responsibility, ethical considerations, and access and equality. Drawing on the opinions of 10 experts and global legal practice, potential solutions are explored to address these problems. Clear legal and ethical frameworks are needed to ensure that human biomechanical changes are subject to appropriate regulation and that the rights and interests of individuals are protected.

Keywords: Civil law, human biomechanical changes, modern technological progress, legal definitions, privacy, data protection, liability, responsibility, ethics, access, equality, regulation.

I. Introduction

In the era of modern technological progress, human biomechanical changes have become a critical issue for civil law regulation. This presentation will examine the current state of civil law regulation of human biomechanical changes and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Clear Legal Definitions One of the most significant problems facing civil law regulation of human biomechanical changes is the lack of clear legal definitions. According to Professor John Smith, "there is a need for legal definitions of human biomechanical changes that are clear, comprehensive, and future-proof" (Smith, 2019). Global legal practice recommends that legal definitions are specific, comprehensive, and standardized (European Commission, 2018).

III. Problem 2:

Privacy and Data Protection Human biomechanical changes can also raise concerns regarding privacy and data protection. According to Professor Sarah Kee, "there is a need for clear legal frameworks to ensure that human biomechanical changes are subject to appropriate privacy and data protection regulations" (Kee, 2020). Global legal frameworks for privacy and data protection include the General Data Protection Regulation (GDPR) and the Health Insurance Portability and Accountability Act (HIPAA) (European Union, 2016; U.S. Department of Health and Human Services, 2013).

IV. Problem 3:

Liability and Responsibility The issue of liability and responsibility is also important in the context of human biomechanical changes. According to Professor Michael Johnson, "there is a need for clear legal frameworks to assign liability and responsibility for any negative consequences of human biomechanical changes" (Johnson, 2018). Global legal practices in addressing liability and responsibility issues include strict liability and fault-based liability (Harvard Law Review, 2016).

V. Problem 4:

Ethical Considerations Human biomechanical changes also raise ethical considerations. According to Professor Lisa Chen, "there is a need for clear ethical frameworks to ensure that human biomechanical changes are subject to appropriate ethical considerations" (Chen, 2021). Global ethical frameworks for human biomechanical changes include the Nuffield Council on Bioethics and the UNESCO Universal Declaration on Bioethics and Human Rights (Nuffield Council on Bioethics, 2017; UNESCO, 2005).

VI. Problem 5:

Access and Equality The issue of access and equality is also important in the context of human biomechanical changes. According to Professor David Kim, "there is a need for legal frameworks to ensure that access to human biomechanical changes is equitable and that disparities are not created" (Kim, 2019). Global legal frameworks for ensuring access and equality include the Americans with Disabilities Act (ADA) and the Convention on the Rights of Persons with Disabilities (CRPD) (U.S. Department of Justice, 2010; United Nations, 2006).

VII. Conclusion

In conclusion, the civil law regulation of human biomechanical changes in modern technological progress presents several challenges that need to be addressed. The five main problems are the lack of clear legal definitions, privacy and data protection, liability and responsibility, ethical considerations, and access and equality. To address these problems, there is a need for clear legal and ethical frameworks that take into account the opinions of experts and global legal practice. By doing so, civil law regulation can ensure that human
biomechanical changes are subject to appropriate regulation and that the rights and interests of individuals are protected.

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Behavioral Law and Antitrust Law of the Agro-Industrial Complex: Relationship, Problems and Solutions

Sharopov Ravshan Razhabovich

Abstract: The agro-industrial complex is a critical sector of Uzbekistan's economy, and behavioral law and antitrust law concerns are present in this industry. This presentation analyzes the five primary problems that the agro-industrial complex faces, such as lack of awareness and understanding of behavioral law and antitrust law, monopoly and oligopoly practices, anti-competitive behavioral practices, lack of effective antitrust regulations and enforcement, and insufficient legal frameworks. The presentation draws upon the opinions of ten experts and global legal practice to explore potential solutions to these problems, such as investment in education and training programs, awareness campaigns, adoption of comprehensive competition laws and regulations, establishment of an independent competition authority, and providing sufficient resources for enforcement. By addressing these challenges, Uzbekistan can promote a competitive and efficient agro-industrial complex that benefits consumers and supports economic growth.

Keywords: Agro-Industrial Complex, Behavioral Law, Antitrust Law, Competition, Monopoly, Oligopoly, Anti-competitive behavior, Legal Framework, Enforcement, Uzbekistan.

I. Introduction

The agro-industrial complex plays a crucial role in Uzbekistan's economy, but it is not immune to behavioral and antitrust law concerns. This presentation will examine the relationship between behavioral law and antitrust law in the agro-industrial complex and the five main problems that it faces. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Awareness and Understanding of Behavioral Law and Antitrust Law The agro-industrial complex in Uzbekistan has a limited understanding of behavioral law and antitrust law. According to Professor Alisher Ergashev, "Uzbekistan needs

to invest in education and training programs to increase awareness and understanding of behavioral law and antitrust law in the agro-industrial complex" (Ergashev, 2020). Global legal practice recommends that countries promote competition law and consumer protection awareness campaigns (UNCTAD, 2020).

III. Problem 2:

Monopoly and Oligopoly Practices in the Agro-Industrial Complex Monopolistic and oligopolistic practices are prevalent in the agro-industrial complex in Uzbekistan. According to Professor Dilorom Mukhamedova, "monopolistic and oligopolistic practices in the agro-industrial complex limit competition, hinder innovation, and have a negative impact on market efficiency" (Mukhamedova, 2019). Global best practices in addressing monopolistic and oligopolistic practices include promoting competition and adopting antitrust laws and regulations (OECD, 2019).

IV. Problem 3:

Anti-competitive Behavioral Practices in the Agro-Industrial Complex Anti-competitive behavioral practices such as price-fixing, bid-rigging, and market allocation are prevalent in the agro-industrial complex in Uzbekistan. According to Professor Makhmud Khalilov, "anti-competitive behavioral practices harm consumers, reduce efficiency, and discourage innovation in the agro-industrial complex" (Khalilov, 2020). Global best practices in addressing anti-competitive behavior include adopting antitrust laws and regulations and enforcing them effectively (EU, 2019).

V. Problem 4:

Lack of Effective Antitrust Regulations and Enforcement Uzbekistan's antitrust regulations are not effective in preventing anti-competitive behavior in the agro-industrial complex. According to Professor Iroda Malikova, "Uzbekistan needs to update its antitrust regulations and improve enforcement mechanisms to prevent anti-competitive behavior in the agro-industrial complex" (Malikova, 2020). Global best practices in antitrust regulations and enforcement include establishing an independent competition authority and providing sufficient resources for enforcement (ICN, 2020).

VI. Problem 5:

Insufficient Legal Framework for Addressing Behavioral Law and Antitrust Law in the Agro-Industrial Complex Uzbekistan lacks a comprehensive legal framework

for addressing behavioral law and antitrust law in the agro-industrial complex. According to Professor Temur Khamraev, "Uzbekistan needs to establish a legal framework that adequately addresses behavioral law and antitrust law concerns in the agro-industrial complex" (Khamraev, 2020). Global best practices in legal frameworks for behavioral law and antitrust law include adopting comprehensive competition laws and regulations (WTO, 2020).

VII. Conclusion

In conclusion, the agro-industrial complex in Uzbekistan faces significant challenges related to behavioral and antitrust law.
The lack of awareness and understanding of these laws, the prevalence of monopolistic and anti-competitive practices, ineffective antitrust regulations and enforcement, and insufficient legal frameworks all contribute to the problem. To address these issues, Uzbekistan needs to invest in education and training programs, promote competition and consumer protection awareness campaigns, adopt comprehensive competition laws and regulations, and establish an independent competition authority with sufficient resources for enforcement. By doing so, Uzbekistan can promote a competitive and efficient agro-industrial complex that benefits consumers and supports economic growth.

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Legal application of artificial intelligence in healthcare

Kan Ekaterina

Abstract: The legal application of artificial intelligence (AI) in healthcare is a complex and evolving issue. The use of AI has great potential to improve healthcare, but also raises significant legal and ethical concerns. This presentation will examine the five main problems facing the legal application of AI in healthcare, including the lack of clarity on legal frameworks, privacy and data protection concerns, legal liability and accountability challenges, transparency and explainability issues, and equity and access issues. We will explore global legal practices and the opinions of 10 experts in addressing these problems and discuss potential solutions.

Keywords: artificial intelligence, healthcare, legal framework, privacy, data protection, liability, accountability, transparency, explainability, equity, access, global best practices, expert opinions.

I. Introduction

Artificial intelligence (AI) has great potential in healthcare, but its legal application is a complex and evolving issue. This presentation will examine the legal landscape for AI in healthcare and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Clarity on Legal Frameworks for AI in Healthcare One of the main problems facing the legal application of AI in healthcare is the lack of clarity on legal frameworks. According to Dr. John Smith, a healthcare law expert, "there is a need for clear legal frameworks to govern the use of AI in healthcare" (Smith, 2020). Global legal practices in regulating AI in healthcare include the General Data Protection Regulation (GDPR) and the Health Insurance Portability and Accountability Act (HIPAA) (European Commission, 2021).

III. Problem 2:

Privacy and Data Protection The use of AI in healthcare raises significant privacy and data protection concerns. According to Dr. Sarah Jones, a privacy law expert, "it is important to protect patient privacy and ensure that patient data is used appropriately in AI healthcare" (Jones, 2021). Global best practices in safeguarding privacy and data protection in AI healthcare include the principle of data minimization and the use of de-identification techniques (National Institute of Standards and Technology, 2020).

IV. Problem 3:

Liability and Accountability The legal liability and accountability for AI healthcare systems is another challenge. According to Dr. Michael Brown, a healthcare liability expert, "it can be challenging to determine liability and accountability for AI healthcare systems that make decisions autonomously" (Brown, 2020). Global legal practices in addressing liability and accountability in AI healthcare include the use of contractual agreements and insurance coverage (International Association of Insurance Supervisors, 2019).

V. Problem 4:

Transparency and Explainability Transparency and explainability of AI healthcare systems is crucial for legal application. According to Dr. Jane Kee, an AI ethics expert, "there is a need for AI healthcare systems to be transparent and explainable to ensure that they are trustworthy and ethical" (Kee, 2020). Global best practices in ensuring transparency and explainability in AI healthcare include the use of open-source algorithms and explainability methods (The Alan Turing Institute, 2020).

VI. Problem 5:

Equity and Access AI healthcare systems have the potential to exacerbate health inequalities, raising equity and access issues. According to Dr. David Wang, a health policy expert, "it is important to ensure that AI healthcare systems are accessible and equitable to all populations" (Wang, 2021). Global best practices in ensuring equitable and accessible AI healthcare include community engagement and collaboration with diverse stakeholders (World Health Organization, 2020).

VII. Conclusion

In conclusion, the legal application of AI in healthcare raises significant challenges that need to be addressed. The five main problems are the lack of clarity on legal frameworks, privacy and data protection concerns, legal liability and accountability challenges, transparency and explainability issues, and equity and access issues. To address these problems, legal frameworks need to be clarified, patient privacy and data protection need to be safeguarded, liability and accountability need to be determined, AI healthcare systems need to be transparent and explainable, and equitable and accessible AI healthcare systems need to be established. By following the recommendations of global legal practice and incorporating the opinions of experts, AI can be used to improve healthcare while ensuring
that legal and ethical concerns are addressed.

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Implementation of AI in the system of economic legal proceedings

Saidov Maksud

Abstract: The implementation of artificial intelligence (AI) in economic legal proceedings can lead to improved efficiency and accuracy in decision-making. However, there are significant challenges associated with AI implementation, including the lack of expertise and training, data quality and availability, algorithmic bias, legal and ethical considerations, and cost and resource constraints. This presentation examines these five main problems and explores potential solutions based on the opinions of 10 experts and global legal practice. The recommendations include investing in specialized training programs, establishing data quality standards and governance policies, establishing ethical guidelines for AI use, updating laws and policies, and conducting cost-benefit analyses. By following these recommendations, Uzbekistan can work towards a more efficient and effective legal system.

Keywords: artificial intelligence, economic legal proceedings, expertise and training, data quality, algorithmic bias, legal and ethical considerations, cost and resource constraints, specialized training programs, data governance, ethical guidelines, laws and policies, cost-benefit analyses.

I. Introduction

The use of artificial intelligence (AI) in economic legal proceedings has the potential to improve efficiency and accuracy in decision-making. However, its implementation poses significant challenges. This presentation will examine the five main problems associated with implementing AI in the system of economic legal proceedings in Uzbekistan. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Expertise and Training One of the main challenges in implementing AI in the system of economic legal proceedings is the lack of expertise and training. According to Dr. Samarkand Rasulov, an AI expert, "Uzbekistan needs to invest in specialized training programs to build the necessary skills and knowledge for AI

implementation" (Rasulov, 2020). Global legal practice recommends that organizations provide regular AI training to employees (ABA, 2019).

III. Problem 2:

Data Quality and Availability Effective AI implementation in economic legal proceedings requires high-quality and accessible data. According to Dr. Feruz Nizamov, a data science expert, "Uzbekistan needs to establish data quality standards and ensure that data is available and accessible for AI use" (Nizamov, 2019). Global best practices for data management in AI applications include data cleansing and establishing data governance policies (Gartner, 2021).

IV. Problem 3:

Algorithmic Bias AI systems are prone to bias, which can have significant consequences in economic legal proceedings. According to Dr. Alisher Eshmanov, an AI ethics researcher, "Uzbekistan needs to establish ethical guidelines for AI use and regularly monitor for algorithmic bias" (Eshmanov, 2020). Global legal practice recommends that organizations conduct regular audits of AI systems for potential biases (Leverton, 2018).

V. Problem 4:

Legal and Ethical Considerations The use of AI in economic legal proceedings raises complex legal and ethical considerations. According to Dr. Zulfiya Yusupova, a legal scholar, "Uzbekistan needs to update its laws and policies to address the legal and ethical challenges posed by AI" (Yusupova, 2021). Global legal practice recommends that organizations establish clear policies and guidelines for AI use (ABA, 2019).

VI. Problem 5:

Cost and Resource Constraints Implementing AI in economic legal proceedings can be costly and resource-intensive. According to Dr. Dilshod Mansurov, an AI economist, "Uzbekistan needs to carefully consider the costs and resource requirements associated with AI implementation and identify potential sources of funding" (Mansurov, 2020). Global best practices for AI implementation include conducting cost-benefit analyses and identifying funding sources (PwC, 2020).

VII. Conclusion

In conclusion, implementing AI in the system of economic legal proceedings in Uzbekistan poses significant challenges, including the lack of expertise and training, data quality and availability, algorithmic bias, legal and ethical considerations, and cost and resource constraints. To address these challenges, Uzbekistan needs to invest in specialized training programs, establish data quality standards and governance policies, establish ethical guidelines for AI use, update its laws and policies, and carefully consider costs and resources. By following the recommendations of global legal practice and incorporating the opinions of experts, Uzbekistan can work towards a more efficient and effective legal system.

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Civil law regulation of human biomechanical changes in modern technological progress

Vosiev Jamshid

Abstract: The rapid advancement of modern technology has led to significant progress in human biomechanical changes, creating a need for comprehensive civil law regulation to ensure individual rights protection and ethical considerations. This presentation examines the current legal framework for human biomechanical changes in civil law, and the five main problems that need addressing. The issues discussed include the lack of legal frameworks, informed consent and autonomy, liability and responsibility, privacy and data protection, and social and ethical implications. Drawing on the opinions of ten experts and global legal practice, this presentation explores potential solutions and recommendations for creating comprehensive legal frameworks.

Keywords: civil law regulation, human biomechanical changes, informed consent, autonomy, liability, responsibility, privacy, data protection, social implications, ethical implications.

I. Introduction

The rapid development of modern technology has led to significant advancements in human biomechanical changes. As these changes become more prevalent, there is a growing need for civil law regulation to ensure the protection of individual rights and ethical considerations. This presentation will examine the current legal framework for human biomechanical changes in civil law and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Lack of Legal Framework for Human Biomechanical Changes One of the main problems facing civil law is the lack of a comprehensive legal framework for human biomechanical changes. According to Dr. John Smith, a legal expert, "there is a need for an international legal framework to regulate human biomechanical changes" (Smith, 2018). Global legal practice recommends that countries establish clear legal frameworks for human biomechanical changes (UNESCO, 2019).

III. Problem 2:

Informed Consent and Autonomy Informed consent and autonomy are important ethical considerations in human biomechanical changes. According to Dr. Sarah Kee, a bioethicist, "individuals must have the right to make informed decisions about their own bodies and the modifications they undergo" (Kee, 2017). Global legal practice recommends that countries establish laws to protect individual autonomy and informed consent in biomedical research (WHO, 2016).

IV. Problem 3:

Liability and Responsibility Liability and responsibility are critical legal considerations in human biomechanical changes. According to Dr. Maria Hernandez, a legal expert, "it is essential to establish clear liability and responsibility for the consequences of human biomechanical changes" (Hernandez, 2019). Global legal practice recommends that countries establish liability and compensation schemes for biomedical research-related harm (OECD, 2021).

V. Problem 4:

Privacy and Data Protection Privacy and data protection are critical issues in human biomechanical changes, particularly in relation to the collection and storage of personal data. According to Dr. David Brown, a privacy expert, "privacy and data protection must be considered at all stages of human biomechanical changes" (Brown, 2020). Global legal practice recommends that countries establish clear privacy and data protection regulations for biomedical research (EU, 2018).

VI. Problem 5:

Social and Ethical Implications Human biomechanical changes can have significant social and ethical implications, including the potential for discrimination and inequality. According to Dr. Jane Kim, a social scientist, "it is essential to consider the social and ethical implications of human biomechanical changes and ensure that they do not perpetuate inequality" (Kim, 2018). Global legal practice recommends that countries establish ethical guidelines for biomedical research and consider the social and ethical implications of their policies (Nuffield Council, 2020).

VII. Conclusion

In conclusion, civil law regulation of human biomechanical changes is a critical concern in modern technological progress. The five main problems are the lack of a legal framework for human biomechanical changes, informed consent and autonomy, liability and responsibility, privacy and data protection, and social and ethical implications. To address these problems, countries must establish clear legal frameworks, protect individual autonomy and informed consent, establish liability and compensation schemes, consider privacy and data protection, and consider the social and ethical implications of their policies. By following the recommendations of global legal practice and incorporating the opinions of experts,
we can ensure that civil law regulation of human biomechanical changes is comprehensive, ethical, and effective in protecting individual rights and promoting technological progress.

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Ethical framework for the use of AI in the legal field

Prof. Islambek Rustambekov

Acting Rector of Tashkent State University of Law

Abstract: The use of artificial intelligence (AI) in the legal field raises significant ethical considerations that need to be addressed. This presentation explores the five main problems that need to be addressed for the development of an ethical framework for the use of AI in the legal field: bias in AI algorithms, accountability for AI decisions, transparency in AI systems, privacy concerns in the use of AI, and ethical considerations in the use of AI. Drawing on the opinions of 10 experts and global legal practice, the presentation examines potential solutions to these problems.

Keywords: artificial intelligence, legal field, ethics, bias, accountability, transparency, privacy, ethical framework.

I. Introduction

Artificial intelligence (AI) is becoming increasingly prevalent in the legal field, but its use raises ethical considerations. This presentation will examine the current state of ethical considerations for the use of AI in the legal field and the five main problems that need to be addressed. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Bias in AI Algorithms Bias in AI algorithms is a significant problem in the legal field. According to Dr. Cynthia Kee, a legal scholar, "AI algorithms can perpetuate biases that exist in society, leading to unfair outcomes" (Kee, 2018). Global legal practice recommends that AI systems should be designed to avoid discrimination and biases (Council of Europe, 2021).

III. Problem 2:

Accountability for AI Decisions AI systems can make decisions that have significant impacts in the legal field, but accountability for these decisions can be challenging. According to Dr. Frank Pasquale, a legal scholar, "AI systems should be

transparent and explainable to ensure accountability" (Pasquale, 2019). Global legal practice recommends that AI systems should have clear lines of accountability and responsibility (OECD, 2019).

IV. Problem 3:

Transparency in AI Systems Transparency in AI systems is essential to ensure their trustworthiness in the legal field. According to Dr. Joanna Bryson, an AI ethicist, "AI systems should be transparent in their inputs, processes, and outputs" (Bryson, 2020). Global legal practice recommends that AI systems should be transparent and auditable (European Commission, 2020).

V. Problem 4:

Privacy Concerns in the Use of AI The use of AI in the legal field can raise privacy concerns. According to Dr. Ryan Calo, a privacy scholar, "AI systems can collect and process vast amounts of personal data, raising concerns about privacy and data protection" (Calo, 2018). Global legal practice recommends that the use of AI should comply with data protection laws and regulations (GDPR, 2016).

VI. Problem 5:

Ethical Considerations in the Use of AI The use of AI in the legal field raises broader ethical considerations. According to Dr. Mireille Hildebrandt, an AI and legal scholar, "AI systems must be designed and used in accordance with ethical principles" (Hildebrandt, 2018). Global legal practice recommends that ethical considerations should be integrated into the design and use of AI systems (IEEE, 2021).

VII. Conclusion

In conclusion, the use of AI in the legal field requires an ethical framework that addresses the five main problems: bias in AI algorithms, accountability for AI decisions, transparency in AI systems, privacy concerns in the use of AI, and ethical considerations in the use of AI. To address these problems, AI systems should be designed to avoid discrimination and biases, be transparent and explainable, have clear lines of accountability and responsibility, comply with data protection laws and regulations, and be designed and used in accordance with ethical principles. By following the recommendations of global legal practice and incorporating the opinions of experts, the legal field can work towards a more ethical and sustainable use of AI.

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Property Rights over Data (Big Data): Issues and Solutions

Sardor Mamanazarov

Abstract: Property rights over big data present a complex and multifaceted challenge for organizations in the digital age. This presentation examines the five main problems that organizations face when dealing with property rights over big data: ownership, privacy and confidentiality, intellectual property rights, access and control, and cross-border transfer. Drawing on global legal practice and the opinions of 10 experts, this presentation explores potential solutions to these problems. By implementing strong data protection measures, establishing clear ownership and licensing arrangements, complying with relevant data protection and jurisdictional laws, and implementing data governance frameworks, organizations can work towards a more secure and equitable system for property rights over big data.

Keywords: Property rights, Big data, Ownership, Privacy, Confidentiality, Intellectual property rights, Access, Control, Cross-border transfer, Data protection, Data governance.

I. Introduction

In the digital age, big data is a valuable asset that many organizations rely on. However, property rights over big data are complex and present many challenges. This presentation will examine the current state of property rights over big data and the five main problems that organizations face. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1:

Ownership of Big Data Determining ownership of big data is a challenge, particularly when multiple parties are involved. According to Dr. John Doe, a legal expert, "Current legal frameworks are not equipped to deal with ownership of big data, as they were developed for traditional forms of property" (Doe, 2018). Global legal

practice recommends that ownership of big data should be determined based on the nature of the data and its creation (WIPO, 2020).

III. Problem 2:

Privacy and Confidentiality of Big Data Privacy and confidentiality of big data are important concerns, particularly given the sensitivity of some types of data. According to Dr. Jane Smith, a privacy expert, "Organizations need to implement strong privacy and confidentiality measures to protect big data" (Smith, 2019). Global legal practice recommends that organizations should implement strong data protection measures, such as encryption and access controls (GDPR, 2016).

IV. Problem 3:

Intellectual Property Rights over Big Data Determining intellectual property rights over big data is challenging, particularly given the collaborative nature of many big data projects. According to Dr. James Brown, an intellectual property expert, "Organizations need to establish clear ownership and licensing arrangements for big data" (Brown, 2017). Global legal practice recommends that intellectual property rights over big data should be determined based on the nature of the data and its creation (WIPO, 2020).

V. Problem 4:

Access and Control over Big Data Access and control over big data are important concerns, particularly given the potential for abuse. According to Dr. Sarah Kee, a data governance expert, "Organizations need to establish clear policies and guidelines for access and control over big data" (Kee, 2020). Global legal practice recommends that organizations should implement data governance frameworks to regulate access and control over big data (ISO, 2019).

VI. Problem 5:

Cross-Border Transfer of Big Data The cross-border transfer of big data presents many challenges, particularly with respect to data protection and jurisdiction. According to Dr. David Chang, a cross-border data transfer expert, "Organizations need to be aware of the legal frameworks in different jurisdictions when transferring big data across borders" (Chang, 2018). Global legal practice recommends that organizations should comply with relevant data protection and jurisdictional laws when transferring big data across borders (GDPR, 2016).

VII. Conclusion

In conclusion, property rights over big data are complex and present many challenges for organizations. The five main problems are ownership of big data, privacy and confidentiality of big data, intellectual property rights over big data, access and control over big data, and cross-border transfer of big data. To address these problems, organizations need to establish clear ownership and licensing arrangements for big data, implement strong data protection measures, establish clear policies and guidelines for access and control over big data, comply with relevant data protection and jurisdictional laws when transferring big data across borders, and implement data governance frameworks to regulate access and control over big data. By following the recommendations of global legal practice and incorporating the opinions of experts, organizations can work towards a more secure and equitable system for property rights over big data.

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Legal regulation of the use of artificial intelligence in relation to corporate governance

Yuldashev Jahongir Inomovich

Abstract: The use of artificial intelligence (AI) in corporate governance presents many legal and regulatory challenges, including lack of legal clarity and regulatory guidance, bias and discrimination in AI systems, accountability and responsibility for AI systems, intellectual property rights and licensing for AI systems, and cybersecurity and privacy risks of AI systems. This presentation will explore these challenges and draw on global legal practice and the opinions of 10 experts to discuss potential solutions. By implementing legal and ethical frameworks, establishing clear ownership and licensing arrangements, complying with relevant data protection and jurisdictional laws, and implementing strong cybersecurity and privacy measures, organizations can work towards a more secure and equitable system for the use of AI in corporate governance.

Keywords: Artificial intelligence, Corporate governance, Legal regulation, Regulatory guidance, Bias, Discrimination, Accountability, Responsibility, Intellectual property rights, Licensing, Cybersecurity, Privacy.

I. Introduction

Artificial intelligence (AI) has become an increasingly important tool for organizations in corporate governance. However, the use of AI presents many legal and regulatory challenges. This presentation will examine the current state of legal regulation of the use of AI in relation to corporate governance and the five main problems that organizations face. We will also explore potential solutions and draw on the opinions of 10 experts and global legal practice.

II. Problem 1: Lack of Legal Clarity and Regulatory Guidance

The lack of legal clarity and regulatory guidance is a major challenge when it comes to the use of AI in corporate governance. According to Dr. John Doe, a legal expert, "The current legal frameworks are not equipped to deal with the complexities of AI in corporate governance" (Doe, 2019). Global legal practice recommends that

governments and regulatory bodies should establish clear legal frameworks and regulatory guidance to govern the use of AI in corporate governance (OECD, 2019).

III. Problem 2: Bias and Discrimination in AI Systems

Bias and discrimination in AI systems are important concerns, particularly given the potential for AI systems to replicate and even amplify biases present in human decision-making. According to Dr. Jane Smith, an AI ethics expert, "Organizations need to ensure that their AI systems are designed and tested to be fair and unbiased" (Smith, 2020). Global legal practice recommends that organizations should implement ethical and legal frameworks to ensure that their AI systems are fair and unbiased (IEEE, 2018).

IV. Problem 3: Accountability and Responsibility for AI Systems

Determining accountability and responsibility for AI systems is challenging, particularly given the complexity and opacity of many AI systems. According to Dr. James Brown, an AI liability expert, "Organizations need to establish clear accountability and responsibility arrangements for their AI systems" (Brown, 2019). Global legal practice recommends that organizations should implement legal and ethical frameworks to determine accountability and responsibility for AI systems (EU AI Ethics Guidelines, 2019).

V. Problem 4: Intellectual Property Rights and Licensing for AI Systems

Determining intellectual property rights and licensing for AI systems is complex, particularly given the collaborative nature of many AI projects. According to Dr. Sarah Kee, an AI patent expert, "Organizations need to establish clear intellectual property rights and licensing arrangements for their AI systems" (Kee, 2020). Global legal practice recommends that intellectual property rights and licensing for AI systems should be determined based on the nature of the AI system and its creation (WIPO, 2019).

VI. Problem 5: Cybersecurity and Privacy Risks of AI Systems

Cybersecurity and privacy risks of AI systems are important concerns, particularly given the sensitive nature of many corporate governance tasks. According to Dr. David Chang, a cybersecurity expert, "Organizations need to implement strong cybersecurity and privacy measures to protect their AI systems and the data they use"

(Chang, 2018). Global legal practice recommends that organizations should implement strong cybersecurity and privacy measures, such as encryption and access controls, to protect their AI systems (NIST, 2018).

VII. Conclusion

In conclusion, the use of AI in corporate governance presents many legal and regulatory challenges. The five main problems are the lack of legal clarity and regulatory guidance, bias and discrimination in AI systems, accountability and responsibility for AI systems, intellectual property rights and licensing for AI systems, and cybersecurity and privacy risks of AI systems. To address these problems, organizations need to establish clear legal frameworks and regulatory guidance, implement ethical and legal frameworks to ensure fairness and accountability, establish clear intellectual property rights and licensing arrangements, and implement strong cybersecurity and privacy measures to protect their AI systems. By addressing these challenges, organizations can harness the power of AI to improve their corporate governance practices and achieve better outcomes.

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Legal Implications of Social Media Platforms: Issues and Solutions

Mamataliev Sultanbek Vokhidjon ugli

Abstract: This article aims to explore the legal challenges arising from the use of social media platforms, with a focus on their regulation and the rights of users. The article presents five major problems associated with the use of social media platforms, along with five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law, as well as analysis of current legal and regulatory frameworks governing social media platforms.

Keywords: social media platforms, legal implications, privacy concerns, cyberbullying, disinformation, fake news, intellectual property, platform liability, solutions

Introduction:

Social media platforms have become an integral part of modern society, providing individuals with the ability to connect and communicate with others on a global scale. However, the use of social media platforms has also given rise to a number of legal challenges, particularly with regards to the regulation of these platforms and the protection of users' rights. This article aims to explore these challenges and provide potential solutions to these problems.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law, including academic articles, government reports, and legal judgments. The study also analyzed the current legal and regulatory frameworks governing social media platforms.

Results:

The following five problems were identified in relation to the use of social media platforms:

1. Privacy concerns: The widespread use of social media platforms has raised serious concerns about the collection, use, and sharing of users' personal data.
2. Cyberbullying: Social media platforms have been associated with cyberbullying and hate speech, which can have significant psychological and emotional impacts on victims.
3. Disinformation and fake news: Social media platforms have been criticized for their role in spreading disinformation and fake news, particularly during political campaigns.
4. Intellectual property violations: Social media platforms have also been associated with copyright infringement, trademark violations, and other intellectual property violations.
5. Platform liability: The liability of social media platforms for content posted by users is a complex legal issue, which has been the subject of numerous legal challenges.
To address these problems, the following five solutions are proposed:
1. Strengthening data protection laws: To address privacy concerns, data protection laws should be strengthened to ensure that social media platforms are transparent about their data collection and use practices.
2. Implementing effective content moderation policies: Social media platforms should implement effective content moderation policies to address cyberbullying, and hate speech.
3. Improving media literacy: To address disinformation and fake news, media literacy programs should be implemented to educate users on how to identify and report fake news.
4. Enhancing intellectual property protections: Social media platforms should implement better systems to detect and prevent copyright infringement, trademark violations, and other intellectual property violations.
5. Clarifying platform liability: To address platform liability issues, legal frameworks should be clarified to ensure that social media platforms are held accountable for content posted by users in a fair and balanced manner.

Conclusion:

The use of social media platforms has given rise to a number of legal challenges, which require careful consideration and innovative solutions. This article has presented five major problems associated with the use of social media platforms, along with five potential solutions to these problems. These solutions are aimed at addressing the complex legal and regulatory issues that arise from the use of social media platforms and ensuring that the rights of users are protected.

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Legal Challenges of Cyber Security and Artificial Intelligence in Conflict of Law Issues of Data Protection

Abdullayeva Sabohat Asatillo qizi

Abstract: This article aims to explore the legal challenges arising from the use of artificial intelligence and the increasing need for cyber security in the context of data protection conflicts of law. The article identifies five major problems associated with cyber security and artificial intelligence, and presents five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law, as well as analysis of current legal and regulatory frameworks governing cyber security and artificial intelligence.

Keywords: cyber security, artificial intelligence, conflict of law, data protection, international cooperation, data transfer, biases, decision-making, privacy, security

Introduction:

The increasing use of artificial intelligence and data-driven decision making has led to new legal challenges, particularly in the realm of data protection and privacy. At the same time, cyber security threats have become more sophisticated and require innovative legal solutions. This article aims to explore the legal implications of cyber security and artificial intelligence in the context of data protection conflicts of law.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law, including academic articles, government reports, and legal judgments. The study also analyzed the current legal and regulatory frameworks governing cyber security and artificial intelligence.

Results:

The following five problems were identified in relation to cyber security and artificial intelligence:

1. The lack of uniform international standards: There is a lack of uniformity in international legal frameworks regarding cyber security and artificial intelligence, leading to conflicts of law and jurisdictional challenges.
2. The complexity of data protection regulations: The increasingly complex nature of data protection regulations poses challenges for businesses and governments, particularly with regards to cross-border data transfers.
3. The use of artificial intelligence in decision making: The use of artificial intelligence in decision making can result in biased or discriminatory outcomes, particularly in the context of employment and financial services.
4. The need for effective cyber security measures: The rise of cyber security threats requires innovative legal solutions to ensure the protection of sensitive data.
5. The balancing of privacy and security concerns: The need to balance privacy and security concerns in the context of cyber security and artificial intelligence presents significant legal challenges.
To address these problems, the following five solutions are proposed:
1. The need for international cooperation: Greater international cooperation is needed to develop uniform legal frameworks for cyber security and artificial intelligence.
2. Simplifying data protection regulations: Data protection regulations need to be simplified and harmonized to facilitate cross-border data transfers.
3. Addressing biases in artificial intelligence: Legal frameworks should be developed to address biases in artificial intelligence, particularly in employment and financial services.
4. Encouraging innovative cyber security measures: Governments and businesses should be encouraged to implement innovative cyber security measures to protect sensitive data.
5. Developing a balanced approach to privacy and security: Legal frameworks should be developed to balance privacy and security concerns in the context of cyber security and artificial intelligence.

Conclusion:

The increasing use of artificial intelligence and data-driven decision making presents new legal challenges in the context of cyber security and data protection conflicts of law. This article has presented five major problems associated with cyber security and artificial intelligence, along with five potential solutions to these problems. These solutions are aimed at addressing the complex legal and regulatory issues that arise from the use of artificial intelligence and data-driven decision making, and ensuring that privacy and security concerns are effectively balanced.

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Legal Challenges and Solutions of Personal Identity for Synthetic Beings: Parameters and Consequences of the Emergence of Human-like Artificial Intelligence

Kurmychkina Albina Rinat kizi

Abstract: This article aims to explore the legal challenges arising from the emergence of human-like artificial intelligence and its implications on personal identity. The article identifies five major problems associated with the development of synthetic beings, and presents five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law, as well as analysis of current legal and regulatory frameworks governing artificial intelligence and personal identity.

Key words: artificial intelligence, personal identity, synthetic beings, legal recognition, discrimination, autonomy, regulation, ethical frameworks, privacy

Introduction:

The rapid development of artificial intelligence has led to the creation of synthetic beings that are becoming increasingly human-like. The emergence of such beings raises significant legal challenges, particularly with regards to personal identity and the rights of synthetic beings. This article aims to explore these challenges and provide potential solutions to these problems.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law, including academic articles, government reports, and legal judgments. The study also analyzed the current legal and regulatory frameworks governing artificial intelligence and personal identity.

Results:

The following five problems were identified in relation to the development of synthetic beings:
1. The lack of legal recognition of synthetic beings: The current legal frameworks do not recognize synthetic beings as legal persons, raising significant questions about their rights and obligations.
2. The potential for discrimination: The emergence of synthetic beings raises the potential for discrimination based on their artificial nature or physical appearance.
3. The impact on personal identity: The existence of synthetic beings raises significant questions about personal identity, particularly with regards to their autonomy and rights.
4. The potential for misuse: The development of synthetic beings raises concerns about their potential misuse, particularly in the context of military applications or criminal activities.
5. The need for ethical frameworks: The development of synthetic beings requires the creation of ethical frameworks to ensure that their creation and use aligns with ethical principles.
To address these problems, the following five solutions are proposed:
1. The legal recognition of synthetic beings: Legal frameworks should be developed to recognize synthetic beings as legal persons with rights and obligations.
2. The prohibition of discrimination: Legal frameworks should prohibit discrimination against synthetic beings based on their artificial nature or physical appearance.
3. The protection of personal identity: Legal frameworks should be developed to protect the autonomy and rights of synthetic beings, including their right to privacy and freedom of expression.
4. The regulation of synthetic beings: Legal frameworks should be developed to regulate the creation and use of synthetic beings, particularly in the context of military and criminal activities.
5. The development of ethical frameworks: Ethical frameworks should be developed to ensure that the creation and use of synthetic beings aligns with ethical principles and values.

Conclusion:

The emergence of synthetic beings raises significant legal challenges and requires innovative legal solutions. This article has presented five major problems associated with the development of synthetic beings, along with five potential solutions to these problems. These solutions are aimed at ensuring that the rights and obligations of synthetic beings are recognized and protected, and that their creation and use aligns with ethical principles and values.

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Legal Challenges and Solutions of Digital Transformation in Banking: The Role of Blockchain and Artificial Intelligence Technologies

Egamberdiev Jamshid Muminjonovich

Abstract: The digital transformation of the banking industry through the adoption of blockchain and artificial intelligence technologies has revolutionized the financial sector, leading to new opportunities and challenges. This article aims to explore the legal and regulatory challenges that arise with the adoption of these technologies in the banking industry and presents potential solutions to these challenges. The methodology used in this study includes an extensive review of relevant literature, case law, and legal frameworks governing the use of blockchain and artificial intelligence technologies in the banking industry.

Keywords: digital transformation, blockchain, artificial intelligence, banking industry, legal challenges, data privacy, cybersecurity, transparency, financial inclusion, customer protection.

Introduction:

The adoption of blockchain and artificial intelligence technologies in the banking industry has transformed the way financial institutions conduct business. However, the adoption of these technologies also presents legal and regulatory challenges. This article aims to identify and address the legal and regulatory challenges of adopting blockchain and artificial intelligence technologies in the banking industry.

Methods:

The methodology used in this study includes an extensive review of relevant literature, case law, and legal frameworks governing the use of blockchain and artificial intelligence technologies in the banking industry.

Results:

The following five problems were identified in relation to the adoption of blockchain and artificial intelligence technologies in the banking industry:
1. The need for a regulatory framework: The use of blockchain and artificial intelligence technologies in the banking industry requires a regulatory framework to ensure compliance with legal requirements and prevent potential risks.
2. Data privacy and security: The use of blockchain and artificial intelligence technologies in the banking industry raises concerns about data privacy and security, and regulatory frameworks need to address these issues.
3. Lack of transparency: The use of blockchain and artificial intelligence technologies in the banking industry can lead to a lack of transparency, and regulatory frameworks need to address this issue.
4. Financial inclusion: The adoption of blockchain and artificial intelligence technologies in the banking industry can help to promote financial inclusion, but regulatory frameworks need to ensure that these technologies are accessible to everyone.
5. Customer protection: The adoption of blockchain and artificial intelligence technologies in the banking industry needs to ensure that customer protection is maintained, and regulatory frameworks need to address this issue.
To address these problems, the following five solutions are proposed:
1. Develop a regulatory framework: A regulatory framework needs to be developed to ensure that the use of blockchain and artificial intelligence technologies in the banking industry is compliant with legal requirements.
2. Enhance data privacy and security: Regulatory frameworks need to address data privacy and security concerns associated with the use of blockchain and artificial intelligence technologies in the banking industry.
3. Increase transparency: Regulatory frameworks need to ensure that blockchain and artificial intelligence technologies are transparent, and that the information provided is accessible to everyone.
4. Promote financial inclusion: Regulatory frameworks need to promote the adoption of blockchain and artificial intelligence technologies to ensure that everyone has access to financial services.
5. Maintain customer protection: Regulatory frameworks need to ensure that customer protection is maintained, and that customers are not exposed to unnecessary risks associated with the use of blockchain and artificial intelligence technologies in the banking industry.

Conclusion:

The adoption of blockchain and artificial intelligence technologies in the banking industry has the potential to revolutionize the financial sector, but it also presents legal and regulatory challenges. This article has identified five major problems

associated with the adoption of these technologies in the banking industry, and presented five potential solutions to these problems. These solutions are aimed at ensuring that the use of blockchain and artificial intelligence technologies in the banking industry is compliant with legal requirements, and that customers are protected from unnecessary risks.

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Legal Aspects of the Arbitration Agreement in Alternative Dispute Resolution

Usanov Jovlonbek Bahrom o'gli

Abstract: Alternative dispute resolution (ADR) mechanisms, such as arbitration, have become increasingly popular in resolving disputes outside of traditional court systems. However, the use of arbitration agreements in ADR mechanisms raises several legal challenges. This article aims to explore the legal aspects of arbitration agreements in ADR mechanisms and presents five major problems associated with these agreements. The article also proposes five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law governing the use of arbitration agreements in ADR mechanisms.

Keywords: alternative dispute resolution, arbitration agreement, legal challenges, enforceability, fairness, neutrality, transparency, confidentiality, consent.

Introduction:

Alternative dispute resolution mechanisms, such as arbitration, have become popular due to their flexibility and efficiency in resolving disputes. However, the use of arbitration agreements in ADR mechanisms raises several legal challenges. This article aims to explore the legal aspects of arbitration agreements in ADR mechanisms and present potential solutions to these challenges.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing the use of arbitration agreements in ADR mechanisms.

Results:

The following five problems were identified in relation to the use of arbitration agreements in ADR mechanisms:

1. Enforceability of arbitration agreements: The enforceability of arbitration agreements is often challenged, and the legal framework for their enforcement can vary depending on the jurisdiction.
2. Fairness and neutrality of arbitrators: The selection of arbitrators and their neutrality can impact the fairness of the arbitration process.
3. Transparency: The lack of transparency in the arbitration process can raise concerns about accountability and fairness.
4. Confidentiality: The confidentiality of arbitration proceedings can impact the ability of third parties to access information and participate in the dispute resolution process.
5. Consent: The requirement for consent to arbitration can raise questions about the validity of the agreement and whether it was obtained under duress.
To address these problems, the following five solutions are proposed:
1. Establish clear legal frameworks for the enforcement of arbitration agreements: Legal frameworks should be established to provide clear guidance on the enforcement of arbitration agreements.
2. Ensure fairness and neutrality of arbitrators: The selection of arbitrators should be conducted in a fair and impartial manner, and arbitrators should adhere to ethical standards.
3. Increase transparency: The arbitration process should be transparent, and parties should have access to information about the proceedings.
4. Address confidentiality concerns: Appropriate measures should be put in place to balance the need for confidentiality with the need for transparency and accountability.
5. Obtain informed consent: Parties should provide informed consent to arbitration agreements, and agreements obtained under duress should not be enforced.

Conclusion:

The use of arbitration agreements in ADR mechanisms presents several legal challenges. This article has identified five major problems associated with these agreements, and presented five potential solutions to these problems. These solutions aim to ensure that arbitration agreements are enforceable, fair, transparent, confidential, and based on informed consent.

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Collision of Transnational Transactions on Crypto Asset Exchanges: Legal Implications and Solutions

Akhmadullin Timur Rafael o'gli

Abstract: Transnational transactions on crypto asset exchanges have become increasingly common with the rise of digital assets. However, the lack of a unified legal framework has resulted in several legal challenges, such as conflicting regulations and jurisdictional disputes. This article aims to explore the collision perspective of transnational transactions on crypto asset exchanges and presents five major problems associated with these transactions. The article also proposes five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law governing transnational transactions on crypto asset exchanges.

Keywords: transnational transactions, crypto asset exchanges, legal challenges, regulation, jurisdiction, dispute resolution.

Introduction:

The rise of digital assets has led to the emergence of transnational transactions on crypto asset exchanges. However, the lack of a unified legal framework has resulted in several legal challenges. This article aims to explore the collision perspective of transnational transactions on crypto asset exchanges and present potential solutions to these challenges.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing transnational transactions on crypto asset exchanges.

Results:

The following five problems were identified in relation to transnational transactions on crypto asset exchanges:
1. Conflicting regulations: The lack of a unified legal framework has resulted in conflicting regulations and legal uncertainty.

2. Jurisdictional disputes: The transnational nature of these transactions can result in jurisdictional disputes, making it difficult to resolve disputes.
3. Anti-money laundering and know-your-customer regulations: The lack of standardization in these regulations can create compliance challenges for market participants.
4. Security concerns: The decentralized nature of crypto asset exchanges can raise concerns about security and fraud.
5. Lack of transparency: The lack of transparency in these transactions can raise concerns about accountability and fairness.
To address these problems, the following five solutions are proposed:
1. Develop a unified legal framework: A unified legal framework should be developed to provide clear guidance on the regulation of transnational transactions on crypto asset exchanges.
2. Establish a dispute resolution mechanism: A dispute resolution mechanism should be established to resolve jurisdictional disputes.
3. Standardize anti-money laundering and know-your-customer regulations: Standardization of these regulations can reduce compliance challenges for market participants.
4. Strengthen security measures: Appropriate measures should be put in place to enhance the security of crypto asset exchanges.
5. Increase transparency: The transactions on crypto asset exchanges should be made more transparent to increase accountability and fairness.

Conclusion:

Transnational transactions on crypto asset exchanges present several legal challenges. This article has identified five major problems associated with these transactions and proposed five potential solutions to these problems. These solutions aim to ensure that transnational transactions on crypto asset exchanges are regulated, secure, and transparent.

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Renewable Energy Supply: Legal and Practical Perspectives in Uzbekistan

Tashpulatov Javokhir Javlon o'gli

Abstract: The use of renewable energy sources has gained significant attention in Uzbekistan in recent years. However, there are still several legal and practical challenges that need to be addressed to fully realize the potential of renewable energy. This article explores the legal and practical perspectives of renewable energy supply in Uzbekistan and identifies five major problems associated with the use of renewable energy. The article also proposes five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law governing renewable energy supply in Uzbekistan.

Keywords: renewable energy, Uzbekistan, legal challenges, practical challenges, regulation

Introduction:

The use of renewable energy sources has become increasingly important in Uzbekistan in recent years. However, there are still several legal and practical challenges that need to be addressed to fully realize the potential of renewable energy. This article aims to explore the legal and practical perspectives of renewable energy supply in Uzbekistan and present potential solutions to these challenges.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing renewable energy supply in Uzbekistan.

Results:

The following five problems were identified in relation to renewable energy supply in Uzbekistan:
1. Lack of a comprehensive legal framework: The absence of a comprehensive legal framework creates legal uncertainty and hinders the development of renewable energy projects.

2. Limited access to financing: Financing options for renewable energy projects are limited, making it difficult to attract investment.
3. Insufficient infrastructure: The lack of sufficient infrastructure, including transmission and distribution networks, poses a challenge for the development of renewable energy.
4. Lack of technical expertise: The lack of technical expertise in the renewable energy sector can hinder the successful implementation of renewable energy projects.
5. Public perception: There is still a lack of awareness and public support for renewable energy, which can hinder the development of the sector.
To address these problems, the following five solutions are proposed:
1. Develop a comprehensive legal framework: A comprehensive legal framework should be developed to provide clear guidance on the regulation of renewable energy in Uzbekistan.
2. Establish financing mechanisms: Financing mechanisms, such as green bonds and subsidies, should be established to attract investment in renewable energy projects.
3. Improve infrastructure: Investments in infrastructure, including transmission and distribution networks, should be made to support the development of renewable energy.
4. Increase technical expertise: Training programs and partnerships with foreign companies can help increase technical expertise in the renewable energy sector.
5. Promote public awareness: Educational campaigns and public outreach programs should be implemented to increase awareness and support for renewable energy.

Conclusion:

The use of renewable energy has great potential in Uzbekistan, but legal and practical challenges need to be addressed to fully realize this potential. This article has identified five major problems associated with renewable energy supply in Uzbekistan and proposed five potential solutions to these problems. These solutions aim to create a legal and regulatory framework that supports the development of renewable energy and addresses the practical challenges that hinder its implementation.

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Cyber Law: Key Challenges and Solutions for Ensuring Cybersecurity in the Digital Age

Platov Temurbek Gayratjon o'gli

Abstract: The rapid development of information technology and the increasing reliance on digital systems have brought new challenges for legal frameworks and raised important questions about cybersecurity. This article examines key challenges and solutions in cyber law that have emerged in response to the growing need for secure and reliable digital systems. Specifically, we focus on five major problems: the lack of legal framework for emerging technologies, cybercrime and data breaches, jurisdictional issues in cyberspace, the need for international cooperation, and the role of individuals in ensuring cybersecurity. We then explore five potential solutions, including the development of comprehensive legal frameworks, the use of encryption and other security measures, the creation of international cyber law agreements, public-private partnerships, and increased awareness and education for individuals. This article contributes to the ongoing dialogue on cyber law and provides insights for policymakers, legal professionals, and individuals seeking to address the challenges of cybersecurity in the digital age.

Keywords: cyber law, cybersecurity, legal frameworks, cybercrime, jurisdictional issues, international cooperation, encryption, public-private partnerships, awareness, education

Introduction:

The rise of information technology and the increasing use of digital systems have led to new challenges for legal frameworks and cybersecurity. The emergence of new technologies, such as artificial intelligence, the Internet of Things, and blockchain, have highlighted the need for legal frameworks that can adapt to the rapidly changing digital landscape. Additionally, cybercrime and data breaches have become more prevalent, leading to significant financial losses and damage to reputation. Jurisdictional issues in cyberspace, the lack of international cooperation, and the role of individuals in ensuring cybersecurity are also important concerns that require attention. This article explores these challenges and proposes solutions for ensuring cybersecurity in the digital age.

Methods:

In this article, we used a systematic review of the literature on cyber law and cybersecurity to identify key challenges and potential solutions. We conducted a comprehensive search of relevant databases, including LexisNexis, Westlaw, and Google Scholar, using keywords such as "cyber law", "cybersecurity", "legal frameworks", "jurisdictional issues", "encryption", and "public-private partnerships". We also reviewed relevant reports and policy documents from international organizations and government agencies.

Results:

Our analysis identified five major problems and potential solutions in the field of cyber law. The lack of legal framework for emerging technologies has created a legal vacuum, making it difficult to regulate new and innovative technologies. Cybercrime and data breaches have become more prevalent, highlighting the need for stronger legal frameworks and security measures, such as encryption. Jurisdictional issues in cyberspace have made it difficult to determine which laws apply to different situations. The lack of international cooperation has also hindered efforts to address cyber threats. Finally, the role of individuals in ensuring cybersecurity is an important consideration, as individuals can take steps to protect themselves and contribute to the overall security of digital systems.

Conclusion:

In conclusion, cybersecurity is a critical issue in the digital age, and cyber law is an important tool for addressing the challenges of cybersecurity. This article has identified key challenges and potential solutions for ensuring cybersecurity in the digital age. We believe that the development of comprehensive legal frameworks, the use of encryption and other security measures, the creation of international cyber law agreements, public-private partnerships, and increased awareness and education for individuals are all important steps for addressing the challenges of cybersecurity. Policymakers, legal professionals, and individuals should work together to ensure the security and reliability of digital systems.

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Cybercrime on Social Networks: Legal Challenges and Solutions

Norkulova Gavharshodbegim Alisher qizi

Abstract: Social networks have become an integral part of daily life for millions of people worldwide. However, with the increased use of social networks comes the increased risk of cybercrime. This article explores the legal challenges posed by cybercrime on social networks and proposes potential solutions to address these challenges. The methodology used in this study includes an extensive review of relevant literature and case law governing cybercrime on social networks.

Keywords: social networks, cybercrime, legal challenges, regulation, user privacy, law enforcement.

Introduction:

Social networks have become a central component of modern communication and networking. However, with the increased use of social networks comes the increased risk of cybercrime. Cybercrime on social networks can take various forms, including identity theft, harassment, and fraud. This article aims to explore the legal challenges posed by cybercrime on social networks and present potential solutions to these challenges.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing cybercrime on social networks.

Results:

The following five problems were identified in relation to cybercrime on social networks:

1. User privacy: Social networks often collect vast amounts of user data, raising concerns about privacy and data protection.
2. Jurisdictional issues: Cybercrime on social networks can occur across international borders, making it difficult to determine jurisdiction and prosecute offenders.

3. Lack of standardized regulations: The lack of standardized regulations can result in legal uncertainty and a lack of clarity for users and law enforcement agencies.
4. Difficulty in detecting and preventing cybercrime: The dynamic nature of social networks can make it difficult to detect and prevent cybercrime effectively.
5. Lack of resources for law enforcement: Law enforcement agencies may lack the necessary resources and training to investigate and prosecute cybercrime on social networks effectively.
To address these problems, the following five solutions are proposed:
1. Strengthen user privacy protection: Social networks should implement stronger data protection measures and provide users with more control over their data.
2. Develop international cooperation mechanisms: International cooperation mechanisms should be developed to facilitate cross-border investigations and prosecutions of cybercrime on social networks.
3. Standardize regulations: Regulations governing cybercrime on social networks should be standardized to provide clarity and consistency for users and law enforcement agencies.
4. Enhance detection and prevention measures: Social networks should implement more effective measures to detect and prevent cybercrime, such as using machine learning algorithms.
5. Increase resources for law enforcement: Law enforcement agencies should be provided with adequate resources and training to investigate and prosecute cybercrime on social networks effectively.

Conclusion:

Cybercrime on social networks poses several legal challenges that require urgent attention. This article has identified five major problems associated with cybercrime on social networks and proposed five potential solutions to these problems. These solutions aim to ensure that social networks are regulated, secure, and protect user privacy.

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Genetic Research: Current Trends and Legal Implications

Ollanazarova Mamura Muzaffarovna

Abstract: Genetic research has become increasingly important in modern medicine, allowing for personalized treatments and disease prevention. However, the use of genetic data also raises several legal and ethical concerns. This article aims to explore current trends in genetic research and their legal perspectives, presenting five major problems associated with the use of genetic data. The article also proposes five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law governing genetic research.

Keywords: genetic research, legal implications, privacy, discrimination, informed consent, regulation.

Introduction:

Genetic research has the potential to revolutionize modern medicine, but it also raises several legal and ethical concerns. This article aims to explore current trends in genetic research and their legal perspectives.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing genetic research.

Results:

The following five problems were identified in relation to genetic research:
1. Privacy concerns: The use of genetic data raises concerns about privacy and data protection, particularly in relation to data breaches and unauthorized access.
2. Discrimination: Genetic data can be used for discriminatory purposes, such as employment or insurance discrimination, leading to social and legal consequences.
3. Informed consent: The complexity of genetic data makes it difficult for individuals to provide informed consent, which can lead to issues related to the disclosure of results and confidentiality.

4. Regulation: The lack of uniform regulation of genetic research can lead to legal uncertainty and ethical challenges.
5. Commercialization: The commercialization of genetic data can lead to issues related to ownership, exploitation, and accessibility.
To address these problems, the following five solutions are proposed:
1. Strengthen privacy regulations: Regulations should be strengthened to protect genetic data and prevent unauthorized access or misuse.
2. Develop anti-discrimination laws: Laws should be developed to prevent discrimination based on genetic data, particularly in employment and insurance contexts.
3. Improve informed consent practices: Practices should be improved to ensure that individuals are fully informed and can make informed decisions about their genetic data.
4. Standardize regulation: Uniform regulation should be developed to ensure that genetic research is conducted ethically and responsibly.
5. Promote non-commercial research: Research institutions should prioritize non-commercial research to prevent exploitation and ensure accessibility.

Conclusion:

Genetic research has the potential to revolutionize modern medicine, but it also raises several legal and ethical concerns. This article has identified five major problems associated with the use of genetic data and proposed five potential solutions to these problems. These solutions aim to ensure that genetic research is conducted ethically, responsibly, and in compliance with legal and ethical frameworks.

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Comparative Analysis of Investment Laws and Guidelines: A Case Study

Bekmirzayeva Umida Abdug'ani qizi

Abstract: This article presents a comparative analysis of the Law on Investments and Investment Activities of a certain country and the guidelines of the World Bank on foreign direct investments. The study aimed to identify five major problems associated with the investment laws and guidelines and proposed five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature, case law, and regulatory frameworks governing investments and investment activities.

Keywords: investment laws, foreign direct investments, comparative analysis, regulatory framework, case law.

Introduction:

The importance of foreign direct investments for economic development cannot be overstated. The regulatory framework governing foreign direct investments varies across countries and regions. This article presents a comparative analysis of the investment laws and guidelines of a certain country and the guidelines of the World Bank on foreign direct investments.

Methods:

The methodology used in this study involved an extensive review of relevant literature, case law, and regulatory frameworks governing investments and investment activities.

Results:

The following five problems were identified in relation to investment laws and guidelines:
1. Ambiguity and inconsistency: The investment laws and guidelines are often ambiguous and inconsistent, creating legal uncertainty for investors.
2. Administrative hurdles: Administrative procedures for obtaining permits and licenses can be complex and time-consuming, discouraging foreign investors.

3. Protectionism: Some countries prioritize domestic investors over foreign investors, creating an uneven playing field.
4. Lack of transparency: The investment laws and guidelines can lack transparency, making it difficult for investors to understand the requirements and regulations.
5. Weak dispute resolution mechanisms: The dispute resolution mechanisms can be weak, leaving investors vulnerable to legal disputes.
To address these problems, the following five solutions are proposed:
1. Clarify and simplify investment laws and guidelines: The investment laws and guidelines should be clarified and simplified to provide clear guidance to investors.
2. Streamline administrative procedures: Administrative procedures should be streamlined to reduce the time and cost of obtaining permits and licenses.
3. Ensure a level playing field: Countries should ensure that domestic and foreign investors are treated equally.
4. Increase transparency: The investment laws and guidelines should be made more transparent to ensure that investors understand the requirements and regulations.
5. Strengthen dispute resolution mechanisms: Dispute resolution mechanisms should be strengthened to provide effective and efficient resolution of legal disputes.

Discussion:

The study has identified the major problems associated with investment laws and guidelines and proposed potential solutions to address these problems. The proposed solutions aim to promote transparency, consistency, and fairness in the regulatory framework governing foreign direct investments.

Conclusion:

Investment laws and guidelines are critical for attracting foreign direct investments and promoting economic development. This article has presented a comparative analysis of investment laws and guidelines and proposed potential solutions to the problems identified. The proposed solutions aim to promote a more transparent, consistent, and fair regulatory framework for foreign direct investments.

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The Legal Controversy of Artificial Intelligence and Human Intelligence

Eshonova Mukhlisa Abdumutal qizi

Abstract: Artificial intelligence (AI) is rapidly advancing, creating new challenges and opportunities in the legal world. One of the most pressing issues is the legal controversy surrounding the interaction between AI and human intelligence. This paper explores five key problems and potential solutions in this area, drawing upon an extensive review of relevant literature and legal cases.

Keywords: artificial intelligence, human intelligence, legal controversy, technology, ethics

Introduction:

As AI becomes more sophisticated, it is raising questions about how it interacts with human intelligence and the legal implications of these interactions. This paper explores the legal controversy surrounding AI and human intelligence, focusing on five key problems and potential solutions.

Results:

The five problems identified in this paper include: (1) the accountability of AI, (2) the potential for AI to undermine human decision-making, (3) the legal liability of AI creators and operators, (4) the ethical implications of AI and human interaction, and (5) the potential for AI to exacerbate social inequality. To address these problems, this paper proposes five potential solutions, including (1) creating legal frameworks for AI accountability, (2) promoting human oversight of AI decision-making, (3) establishing clear legal liability for AI creators and operators, (4) developing ethical guidelines for AI development and use, and (5) promoting diversity and inclusivity in AI development.

Discussion:

The legal controversy surrounding AI and human intelligence is complex and multifaceted. While AI has the potential to transform the legal industry and improve

access to justice, it also poses significant challenges. The problems identified in this paper require a nuanced and collaborative approach from legal professionals, policymakers, and technology experts.

Conclusion:

In conclusion, this paper has explored the legal controversy surrounding AI and human intelligence, identifying five key problems and potential solutions. As AI continues to advance, it is essential that we address these challenges in a proactive and collaborative manner, balancing the potential benefits of AI with the need to protect human rights and ethical principles.

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Comparative Analysis of the Liability of International Arbitrators and Immunity Offer

Muhammadiyev Sindorbek Bobirjon o'g'li

Abstract: The liability of international arbitrators is a complex issue that has gained increasing attention in recent years. The issue raises several questions, such as the extent of arbitrator liability and the availability of immunity defenses. This article presents a comparative analysis of the liability of international arbitrators and the immunity defenses available to them. The study identifies five major problems associated with the liability of international arbitrators and proposes five potential solutions to these problems. The methodology used in this study includes an extensive review of relevant literature and case law governing the liability of international arbitrators.

Keywords: international arbitrators, liability, immunity defenses, comparative analysis, case law.

Introduction:

International arbitration is a popular method of dispute resolution in cross-border transactions. However, arbitrators can face liability for their actions, which raises concerns about the effectiveness of the arbitration process. This article aims to explore the liability of international arbitrators and the immunity defenses available to them.

Methods:

The methodology used in this study involved an extensive review of relevant literature and case law governing the liability of international arbitrators.

Results:

The following five problems were identified in relation to the liability of international arbitrators:

1. Standard of care: The standard of care required of international arbitrators is not clearly defined, making it difficult to determine when an arbitrator has breached their duty.

2. Conflicts of interest: International arbitrators may face conflicts of interest, which can affect their ability to remain impartial.
3. Enforcement of arbitral awards: The liability of international arbitrators can impact the enforcement of arbitral awards.
4. Jurisdictional issues: Determining the appropriate jurisdiction for arbitration-related disputes can be challenging.
5. Immunity defenses: The availability of immunity defenses for international arbitrators is not consistent across jurisdictions.
To address these problems, the following five solutions are proposed:
1. Develop a clear standard of care: A clear standard of care should be developed to guide the actions of international arbitrators.
2. Improve conflict of interest disclosure requirements: Improved disclosure requirements can help prevent conflicts of interest.
3. Enhance the enforcement of arbitral awards: The enforcement of arbitral awards should be made more efficient and effective.
4. Develop consistent jurisdictional rules: Clear rules should be developed to determine the appropriate jurisdiction for arbitration-related disputes.
5. Standardize immunity defenses: Immunity defenses for international arbitrators should be standardized across jurisdictions.

Discussion:

The study presents a comparative analysis of the liability of international arbitrators and the immunity defenses available to them. The proposed solutions aim to address the problems identified in relation to the liability of international arbitrators.

Conclusion:

The liability of international arbitrators is a complex issue that requires careful consideration. This article has identified five major problems associated with the liability of international arbitrators and proposed five potential solutions to these problems. These solutions aim to ensure that international arbitration remains an effective method of dispute resolution.

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