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Governance⁵ of artificial intelligence (AI) for the protection of intellectual property.

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Course Number: A1800

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Artificial Intelligence in the Arab World: Intellectual Property Challenges	The Patentability of AI Invention: The Case of the Kingdom of Saudi Arabia Law	Title
Osama Eid	Mohamad Albakjaji	Author
2023	2022	year
The study examines the challenges of artificial intelligence (AI) intellectual property rights in the Arab world.	The study highlights AI's momentum due to technological advancements, posing a challenge to existing legal frameworks. It acknowledges Saudi Arabia's efforts to	ABSTRACT
Theoretical approach	Theoretical approach	methodology
The results of this research highlight the importance of strengthening the protection of intellectual property (IP) in the field of artificial intelligence (AI) in the Arab world. The study identifies specific challenges related to	the article emphasizes that KSA still lacks proper laws that govern AI-generated innovations.	result
Not mentioning sources clearly	There is a significant gap in the laws governing AI-generated innovations in Saudi Arabia, like other countries. Patenting AI innovations is complex due to various interpretations of patent laws, which have not sufficiently addressed the issue of AI innovation and their patentability.	weaknesses
This research document explores AI and intellectual property in the Arab world, addressing IP protection issues to support innovation and economic growth.	Artificial intelligence has tremendous potential and can contribute to realizing Saudi Arabia's Vision 2030. AI innovations are achieved by algorithms, which can enhance intellectual capabilities and execute tasks quickly. Saudi Arabia is one of the largest Intellectual Property centers in the GCC region, indicating a focus on protecting intellectual property rights.	strengths

AI and IP: Theory to Policy and Back Again –Policy and Research Recommendations at the Intersection of Artificial Intelligence and	Impact of Artificial Intelligence on Intellectual Property Rights	Research on The Copyright Law of Artificial Intelligence Generation
Peter Georg Picht, Florent Thouvenin	Nitesh Kumar Upadhyay Mahak Rather	Shenxin Li, Zhao Yixin, Medina Turdi
2023	2020	2020
The article provides recommendations for intellectual property rights (IPRs) in the context of uses descriptive and The article notes that the use of personal data in AI system training is limited due to the limitations of data protection laws, such as the principle of reduction and limited purpose. Thorough future research should be conducted to verify the feasibility of these proposals and their impact on innovation and intellectual property rights. This research should also include all	The impact of Artificial Intelligence (AI) on Intellectual Property Rights (IPR) is significant. AI has both uses descriptive and The study suggests that AI can be beneficial in patent search, research, and innovation. However, it also acknowledges the threats AI poses to creativity and innovation when it operates his study may include the lack of primary research or empirical data, as it primarily relies on a literature review. Additionally, the study does not provide specific case studies or examples to study include its comprehensive analysis of the impact of artificial intelligence on intellectual property rights, covering various aspects such as copyright, patents, and traditional knowledge	This article examines the legal protection and copyright issues surrounding artificial uses descriptive and The results of this study suggest that artificial intelligence (AI) products should be considered as copyrightable works. It argues that AI products meet the criteria of originality and can include reliance on literature review and laws related to copyright protection of AI products, which means that some recent research or Strengths of this study include its comprehensive analysis of the current legal framework and regulations regarding the copyright of AI products

Challenges of the Intellectual Property System in the Age of Artificial Intelligence	Yin Fenglin Zhao Yixin	2020	In the 21st century, artificial intelligence (AI) has reached new heights with the rapid growth of computer computing speed and uses descriptive and Analytica	A report from Forbes notes that artificial intelligence has penetrated all aspects of our lives in recent years and noted that a shift from the era of basic artificial intelligence to the era of comprehensive artificial	The article does not provide specific empirical data or case studies to support the analysis and conclusions.	One strength of the study is the thorough examination of the challenges posed by AI-generated works to copyright law. further exploration and
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Review of Artificial Intelligence in the Arab World: Intellectual Property Challenges

The study supplies a comprehensive analysis of the challenges faced by the Arab world in protecting intellectual property rights in the field of artificial intelligence (AI) It highlights the need for a strong legal framework to safeguard innovators and encourage investment in Arabic world. The research also emphasizes the importance of promoting awareness about IP and its role in supporting technological development and innovation.

The study offers practical solutions for stakeholders in the AI field and emphasizes the importance of technology

transfer and sustainable development in the region
However, it suggests that clearer mention of sources would have been helpful to support the findings and recommendations.

Overall, the study is considered a valuable contribution to the ongoing discussion on intellectual property protection in the AI sector in the Arab world. It supplies insights into the challenges faced by innovators and policymakers and offers recommendations for addressing these challenges to enhance the region's position in the global AI landscape and drive sustainable economic growth.

review of ⁶ **The Patentability of AI Invention: The Case of the Kingdom of Saudi Arabia Law**

The study explores the momentum of artificial intelligence (AI) and the challenges it poses to existing legal frameworks. It acknowledges Saudi Arabia's efforts to regulate AI innovations and highlights the difficulties in patentability and legal challenges as technology evolves. The results show a significant gap in Saudi Arabia's laws governing AI innovations, like other countries. The study sheds light on the challenges faced by intellectual property legislation in effectively regulating AI innovations. The article emphasizes the need for proper laws governing AI-generated innovations in Saudi Arabia. It discusses the complexities surrounding patenting AI innovations, including various interpretations of patent laws and the question of ownership when it comes to granting patents to algorithms. Furthermore, the study recognizes the potential of artificial intelligence in contributing to the realization of Saudi Arabia's Vision 2030. It highlights that

AI innovations primarily rely on algorithms, which can enhance intellectual capabilities and execute tasks efficiently. This aligns with Saudi Arabia's focus on protecting intellectual property rights, as it ⁴ is one of the largest Intellectual Property centres in the GCC region. Overall, this study provides valuable insights into the challenges faced by intellectual property legislation in regulating AI innovations in Saudi Arabia, highlighting the need for comprehensive laws and addressing the complexities surrounding patentability and ownership in the field of AI.

⁷ Review Of **Research on The Copyright Law of Artificial Intelligence Generation**

The article under review explores the legal protection and copyright issues surrounding artificial intelligence (AI) products. It argues for the recognition of AI products as copyrightable works and proposes that the rights to these ⁷ products should be held by AI investors and users. The study employs a descriptive and analytical research

method, relying on a literature review and laws related to copyright protection of AI products.

One strength of this study is its comprehensive analysis of the current legal framework and regulations about the copyright of AI products. By considering the criteria of originality and the ability to be reproduced in a tangible form, the study suggests that AI products meet the requirements for copyright protection. ¹⁰ However, it is important to acknowledge the limitations of this research.

The reliance on a literature review and existing laws may overlook recent developments in this area. Additionally, potential limitations in data collection or study design could affect the researcher's ability to draw strong conclusions. In conclusion, this article contributes to the ongoing discussion on the copyright protection of AI products. It highlights the need for legal mechanisms to address disputes related to AI products and argues for the recognition of their copyrightability. Researchers and practitioners should consider the limitations of this study when interpreting its findings and applying them in practice.

² Review of Impact of Artificial Intelligence on Intellectual Property Rights

The research paper supplies a comprehensive analysis of ² the impact of Artificial Intelligence (AI) on Intellectual Property Rights (IPR). The paper highlights both the positive and negative effects of AI on IPR, including how AI can enhance patent search tools, improve research accuracy, and aid innovators in finding existing patents like their ideas. However, the paper also acknowledges that AI poses a threat to innovation and creativity, which are the core elements of IPR. The study discusses the challenges faced in patenting AI inventions and the legal issues associated with governing AI-generated innovations. It suggests that clear rules and policies are necessary to govern the use of AI in IPR. Additionally, the study addresses the issue of liability, suggesting that programmers may be held liable if there was knowledge or intention of infringement. Overall, the study concludes that while AI has potential benefits for IPR, there are still challenges that need to be addressed. A clear roadmap for

AI's functioning, control, and liability is necessary for a balanced and responsible approach to AI in IPR. The study supplies valuable ¹³ insights into the impact of AI on IPR and highlights the need for further research in this area.

¹ Review of **AI and IP: Theory to Policy and Back Again –Policy and Research Recommendations at the Intersection of Artificial Intelligence and Intellectual Property**

The article supplies valuable recommendations for addressing ² intellectual property rights in the context of artificial intelligence (AI). It suggests that a natural person should be registered as the inventor when an AI system creates an invention, and that copyright protection should be limited to works involving human contribution. The article also highlights the limitations of using personal data in AI system training due to data protection regulations. However, the feasibility and impact of these proposals on innovation and intellectual property rights should be further researched. It is important to include all interested

parties, such as developers, industry, IP offices, open society, and key users in this research.

The proposal to reconsider the current protection system and replace it with a single software protection system, including an artificial intelligence system, is an interesting idea that calls for further exploration Overall, the article supplies insightful recommendations and highlights important considerations for addressing ⁸ intellectual property rights in the age of AI.

³ Review **Challenges of the Intellectual Property System in the Age of Artificial Intelligence**

¹¹ The article supplies a comprehensive overview of the impact of AI on the intellectual property system. It highlights the challenges and opportunities that arise from AI integration and emphasizes the need for policymakers to adapt existing laws to accommodate AI-generated creations. The article also notes that while AI brings challenges in aspects such as ownership and scope of protection, it presents new opportunities for innovation and creativity within the intellectual property system. One

strength of the text is the thorough examination of the challenges posed by AI-generated works to copyright law. However, it would be beneficial to include empirical data or case studies to support the analysis and conclusions. Overall, the text provides valuable insights into the complex relationship between AI and intellectual property and emphasizes the importance of adapting existing laws to keep up with technological.

Summary

The research paper collection explores various aspects of the governance and protection⁵ of intellectual property in the context of artificial intelligence (AI). It covers topics such as the challenges faced by existing legal frameworks in regulating AI innovations, patentability difficulties, copyright issues surrounding AI products, and the impact of AI on intellectual property rights. The articles emphasize the need for comprehensive laws and legal mechanisms to address these complexities and ensure effective protection of intellectual property

in the AI sector. In terms of similarities, all the references discuss the challenges and complexities of governing and protecting intellectual property in the context of AI. They emphasize the importance of comprehensive laws and legal mechanisms to address these challenges and promote innovation. Additionally, they recognize the potential of AI in enhancing patent search tools and improving research accuracy. On the other hand, there are differences among the references. Each reference focuses on specific aspects of intellectual property and AI, such as patentability or copyright issues. They may have different perspectives on certain topics, such as the recognition of AI products as copyrightable works or the role of personal data in AI system training. Furthermore, they may cite different studies, laws, or cases to support their arguments and conclusions.⁹ It is important to note that these observations are based on the information provided in the research paper

collection. For more specific details, a thorough analysis of each reference would be necessary.

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