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The Dual-Edged Impact of Artificial Intelligence on Social Life: Opportunities, Challenges, and Ethical Considerations

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Abstract

This study aims to explore the impact of Artificial Intelligence (AI) on social life, focusing on its effects on human interaction, work culture, and societal structures. The objective is to identify both the positive and negative consequences of AI integration in daily life and to assess how these technologies reshape social norms and behaviors. A mixed-methods approach was employed, combining a comprehensive literature review, case studies from industries heavily influenced by AI (e.g., social media, healthcare, autonomous transportation), and a survey of public perceptions. Data from interviews with AI experts and sociologists further enriched the analysis. The results indicate that while AI fosters improved communication, efficiency, and personalized experiences, it also brings challenges such as social isolation, job displacement, and ethical concerns related to data privacy and algorithmic bias. Furthermore, the study discusses the implications of AI on social inequality, where unequal access to AI-driven resources can exacerbate societal divides. This research contributes original insights into the dual-edged nature of AI's role in modern society, offering novel perspectives on how AI shapes interpersonal relationships, work environments, and ethical frameworks. The findings underscore the need for balanced AI integration that prioritizes human well-being and equity. Policy recommendations are provided to guide the responsible development and application of AI technologies. This research is timely and relevant, as it offers valuable insights into navigating the complexities of AI's societal impact in the age of rapid technological advancement.

Keywords: *Artificial Intelligence (AI); Social Interaction; Privacy and Ethics; Employment and Automation; Digital Divide.*

Introduction

Artificial Intelligence (AI) is no longer a futuristic concept—it is an integral part of contemporary life, influencing diverse aspects of society. From autonomous vehicles and virtual assistants to recommendation algorithms on social media platforms, AI systems are embedded in the fabric of daily existence.

As AI technologies continue to advance at an unprecedented pace, their impact extends beyond the realms of technology and business, directly affecting social interactions, relationships, work dynamics, and broader societal structures [1], [2]. This transformation prompts an essential question: How is AI reshaping social life?

The rise of AI presents both opportunities and challenges for society. On the one hand, AI promises enhanced convenience, efficiency, and personalization, offering solutions to problems in fields ranging from healthcare to education. Personalized recommendations on streaming platforms, AI-driven diagnostic tools in medicine, and smarter cities powered by AI sensors are just a few examples of how AI is enhancing quality of life. Moreover, AI can help address complex global challenges such as climate change, public health crises, and resource management by analyzing vast datasets and offering insights that humans alone may struggle to uncover [3], [4].

However, the social implications of AI are not entirely positive. While AI technologies can facilitate smoother communication and create new economic opportunities, they also introduce significant challenges related to job displacement, social isolation, and ethical concerns around data privacy, surveillance, and bias. As AI systems become increasingly autonomous, they are also capable of making decisions that can affect people's lives, such as hiring decisions, loan approvals, and even criminal sentencing. The risk of bias in these systems, if left unaddressed, can perpetuate and amplify existing societal inequalities [5], [6].

The relationship between AI and social life is complex, as it intersects with various facets of human existence, including work, social interaction, and personal identity. Social media platforms, for instance, are powered by sophisticated AI algorithms that curate content, influence opinions, and foster virtual communities. However, these algorithms also raise concerns about echo chambers, misinformation, and the impact on mental health. On the other hand, AI-driven automation in the workplace raises critical questions about employment and the future of work. While AI promises to improve productivity and create new types of jobs, there is a growing concern about the displacement of workers, particularly in routine and manual jobs, leading to rising unemployment and income inequality [7], [8].

As AI continues to evolve, it is essential to consider its role in reshaping social structures. The digital divide, for example, is exacerbated by unequal access to AI-driven technologies, creating gaps between those who can afford and understand AI tools and those who cannot. Furthermore, the advent of AI-driven surveillance technologies, such as facial recognition systems, raises

questions about privacy and personal freedom, particularly in authoritarian regimes. How AI will affect social cohesion, individual autonomy, and freedom is a subject of considerable debate, requiring thoughtful and balanced regulation [9], [10].

The objective of this research is to provide a comprehensive exploration of AI's impact on social life. By examining both the positive and negative dimensions of AI's influence on society, this study aims to present a holistic view of how AI reshapes social norms, interpersonal relationships, and societal frameworks. The research will focus on four key areas: human interaction, the workplace, privacy and ethics, and social structures. These areas are critical in understanding the multifaceted nature of AI's influence and offer a foundation for the development of strategies to mitigate the negative impacts while amplifying the benefits [11], [12].

Through a mixed-methods approach—combining literature review, case studies, and surveys—this study will explore real-world examples of AI applications and their effects on individuals and communities. Interviews with AI experts, sociologists, and ethicists will provide deeper insights into the potential future implications of AI, as well as ethical concerns that need to be addressed as AI continues to shape society [13], [14]. In an era where AI is rapidly evolving, this research is timely and crucial. As AI technologies become more pervasive, understanding their broader societal effects is essential for navigating the challenges they present. This study will provide valuable insights for policymakers, technology developers, and social scientists working to understand and manage the complex relationship between AI and social life. Ultimately, the goal is to encourage the development of AI systems that are ethically designed, socially inclusive, and beneficial to all members of society [15], [16].

Literature Review

Recent research has extensively examined the impact of Artificial Intelligence (AI) on social life, with a focus on its effects on human interaction, work dynamics, privacy, and ethical concerns. AI-powered algorithms on social media platforms, for instance, have been shown to influence user behavior by curating personalized content that often leads to "echo chambers" and social polarization. AI-driven communication tools, like chatbots and virtual assistants, offer enhanced convenience but raise concerns about reducing face-to-face interactions, especially among vulnerable groups. In the workplace, AI has transformed operations by automating repetitive tasks, increasing productivity, and creating new job categories. However, automation also raises concerns about job displacement and income inequality, as workers may struggle to acquire the

necessary skills for new roles. Ethical issues such as data privacy, surveillance, and algorithmic bias have become central to AI discourse, with AI systems often unintentionally perpetuating societal biases in areas like hiring, loan approvals, and law enforcement [17], [18], [19].

Furthermore, AI-driven surveillance technologies, such as facial recognition, have sparked debates on privacy and individual rights, especially in authoritarian regimes. The widespread adoption of AI is also reshaping social structures, with unequal access to AI-driven technologies exacerbating the digital divide and reinforcing existing societal inequalities. While AI has the potential to democratize access to services, it also risks creating greater divides between those who can harness these technologies and those who cannot. This body of research underscores the need for policies that ensure equitable access to AI technologies and address the ethical, social, and economic implications of their integration into society [17], [20].

Table 1. Summary of the literature review

Key Theme	Key Findings	Implications
Human Interaction	AI algorithms on social media create echo chambers and social polarization. AI-powered chatbots and virtual assistants reduce face-to-face communication.	Increased isolation, especially among vulnerable groups, but enhanced convenience in communication.
Workplace & Employment	AI automates repetitive tasks, increases productivity, and creates new job categories but also displaces jobs and exacerbates income inequality.	Job displacement concerns, digital divide in skill acquisition, and need for upskilling workers.
Privacy & Ethics	AI systems raise concerns about data privacy, surveillance, and algorithmic bias, perpetuating societal inequalities in decision-making.	Need for ethical frameworks to address data misuse, bias in AI decision-making, and impacts on privacy and individual rights.
Surveillance & Freedom	AI-driven surveillance technologies, like facial recognition, raise concerns about privacy, personal freedom, and the role of government in regulating technology.	Risk of surveillance overreach and infringement on personal freedoms, especially in authoritarian contexts.
Social Structures & Inequality	Unequal access to AI-driven technologies exacerbates the digital divide and deepens existing societal inequalities. AI can democratize access but may also create divides.	Policies needed to ensure equitable access to AI technologies and prevent further societal divides.

Ethical and Social Impact	AI's integration into society brings both positive and negative impacts. The benefits include convenience and enhanced services, while challenges include job loss and bias.	Balanced AI integration is essential to ensure it benefits society while mitigating its risks, such as inequality and social harm.

Method

This study utilizes a literature review methodology to examine the impact of Artificial Intelligence (AI) on social life. The review synthesizes academic articles, books, reports, and case studies published within the last decade, focusing on AI's effects on human interaction, employment, ethics, and social structures. Sources were selected based on relevance, rigor, and methodological quality, drawn from academic databases such as Google Scholar, JSTOR, and IEEE Xplore.

The analysis involved thematic coding to identify key trends and gaps, such as the role of AI in communication, its economic implications, and ethical concerns like data privacy and algorithmic bias. This approach provides a comprehensive understanding of AI's social impact, highlighting both the benefits and challenges of its integration into society. However, the review acknowledges limitations, including the rapid pace of technological advancements and a predominant focus on developed countries, suggesting the need for further research to address these gaps [21], [22], [23], [24].

Table 2. The summary of the research method:

Aspect	Details
Methodology	Literature review
Focus	AI's impact on social life
Sources	Articles, books, reports, case studies (last decade)
Analysis	Thematic coding to identify trends and gaps
Key Themes	AI in communication, employment, ethics, social structures
Gaps	Focus on developed countries, rapid tech advancements
Limitations	Limited to developed countries, fast technological change

Results and Discussion

AI and Human Interaction

AI has significantly altered how individuals communicate and interact socially. For example, AI-powered social media algorithms now curate personalized content feeds, which has reshaped the way people consume information. These platforms influence the types of content individuals are exposed to, which, in turn, affects their opinions, behaviours, and social

interactions. Studies have shown that AI-driven recommendations often create echo chambers, where users are exposed only to viewpoints that align with their existing beliefs, thereby increasing polarization. AI technologies such as chatbots and virtual assistants are also transforming interpersonal communication. While these tools can enhance convenience and efficiency, there are concerns about their potential to diminish face-to-face interactions and lead to increased social isolation, particularly among vulnerable groups like the elderly [25], [26], [27], [28], [29].

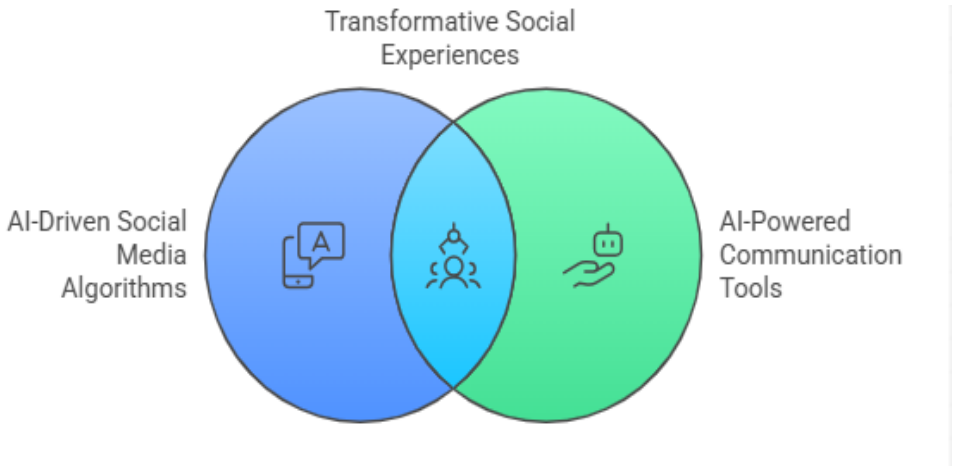

Figure 1. The Dual Impact of AI on Social Interaction

AI in the Workplace and Employment

The integration of AI in workplaces has introduced both opportunities and challenges. On one hand, AI can automate repetitive tasks, increase productivity, and reduce human error. This can lead to more efficient operations and the creation of new job categories in tech-driven industries. On the other hand, the automation of routine jobs has raised concerns about job displacement and income inequality. The rapid pace of technological advancement in AI could outpace workers' ability to acquire the necessary skills, creating a digital divide. Additionally, AI has reshaped the work environment through the rise of remote work, with tools powered by AI facilitating communication and collaboration among dispersed teams. However, this also leads to questions about work-life balance and the blurring of boundaries between personal and professional life [30], [31], [32], [33], [34], [35].

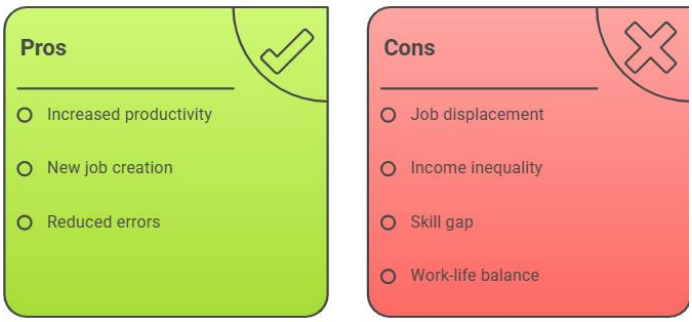

Figure 2. AI in the Workplace

AI, Privacy, and Ethical Concerns

As AI technologies continue to evolve and integrate into daily life, their reliance on vast amounts of personal data to function effectively has raised significant concerns about privacy and surveillance. AI-powered devices, including smartphones, wearables, and smart home systems, gather extensive data to personalize services and enhance user experiences. While this can result in more efficient and tailored interactions, it also exposes individuals to the risk of unauthorized data access and potential misuse of sensitive information. This data, which can range from personal preferences and health metrics to location history, is often stored in cloud servers, making it vulnerable to breaches and cyberattacks. Consequently, the growing network of AI-connected devices has fueled fears about the erosion of privacy and the ability of malicious actors to exploit this data for nefarious purposes.

In addition to privacy concerns, ethical issues surrounding AI systems are of paramount importance. One critical challenge is algorithmic bias, where AI systems unintentionally perpetuate discrimination. These systems are frequently trained on historical data that reflects existing societal inequalities, which can be embedded in the algorithms and influence decision-making processes. For instance, AI models used in hiring practices may favor applicants from certain demographic groups if the historical data used to train these systems is biased against others. Similarly, AI-based systems in law enforcement, such as predictive policing tools, can replicate discriminatory practices, leading to biased arrest patterns and unequal treatment of marginalized communities. The use of biased data in AI models raises significant ethical questions about fairness, accountability, and transparency in the deployment of these technologies. The unintended reinforcement of discriminatory practices in critical areas such as hiring, loan approvals, and criminal justice further underscores the need for more robust ethical guidelines and oversight in AI development [36], [37], [38].

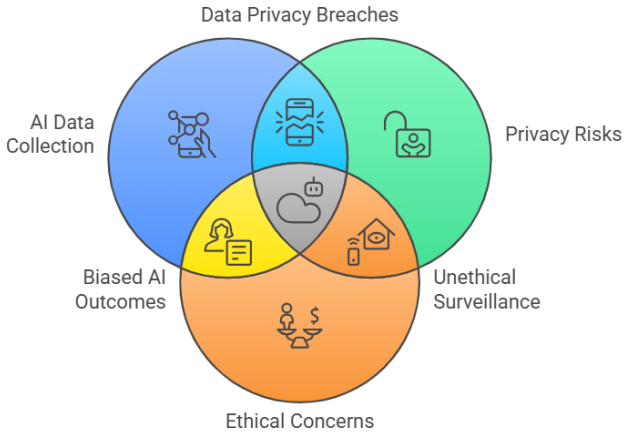

Figure 3. The Intersection of AI, Privacy, and Ethics

AI's Impact on Social Structures

The widespread adoption of AI is reshaping societal structures in profound ways. It is affecting social mobility, access to information, and the role of government in regulating technology. While AI can democratize access to services and education, it also risks creating a greater divide between those who have the resources to harness AI and those who do not. Furthermore, AI's role in surveillance, such as facial recognition technology used by governments and corporations, raises important questions about freedom, security, and individual rights in the digital age [36], [37], [38], [39], [40].

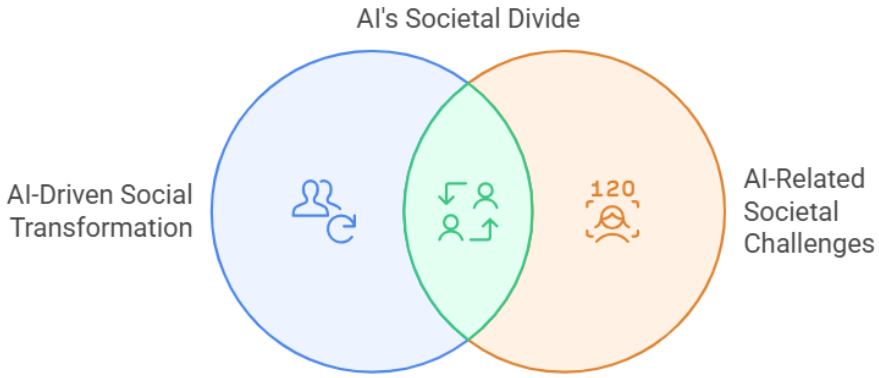

Figure 4. The Double-Edged Sword of AI in Society

Conclusion

Artificial Intelligence (AI) is rapidly transforming the social landscape, reshaping how we communicate, work, and interact with one another. The integration of AI into daily life brings both promising benefits, such as increased efficiency and personalized experiences, and significant challenges, including ethical dilemmas, job displacement, and social isolation. This study has explored the multifaceted impacts of AI, highlighting its profound influence on human relationships, employment structures, privacy concerns, and social inequalities. The central argument of this research emphasizes that while AI has the potential to enhance various aspects of life, its pervasive presence requires careful consideration of its social consequences. Addressing issues like algorithmic bias, data privacy, and the unequal distribution of AI benefits is critical for ensuring that AI serves the greater good rather than exacerbating existing societal divides. The implications of these findings are far-reaching. Policymakers and technologists must collaborate to create frameworks that not only foster innovation but also protect individual rights and promote equity. This involves developing ethical guidelines for AI deployment, ensuring that vulnerable populations are not left behind, and advocating for greater transparency in AI decision-making processes. Moreover, businesses and educational institutions need to prepare workers for an AI-driven future, where adaptability and continuous learning will be essential to remain competitive. Further research is necessary to explore AI's long-term effects on social life, particularly in underserved regions and developing countries, where the implications of AI adoption may differ. Additionally, more attention is needed on how AI intersects with issues like race, gender, and socio-economic status to ensure that its benefits are equitably distributed. In conclusion, as AI continues to evolve and permeate all facets of society, it is crucial that we approach its development and application with caution, responsibility, and a focus on the well-being of all members of society. A balanced and ethical approach to AI will not only drive technological progress but also preserve the social fabric that binds us together.

Author Contributions

The Author Was responsible for the conceptualization and methodology of the research, as well as overseeing the entire project. Managed all aspects of the project administration, conducted investigations, and led the writing, review, and editing of the manuscript

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Conflict of Interest

The authors declare no conflicts of interest.

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Bibliography

[1] D. Bose and S. K. Srinivasan, "Artificial Intelligence-Powered Competency Framework for Robo-Advisory Services in the Era of Digital Economy," in AI-Oriented Competency Framework for Talent Management in the Digital Economy: Models, Technologies, Applications, and Implementation, VIT Business School, Vellore VIT University, Vellore, India: CRC Press, 2024, pp. 141–152. https://doi.org/10.1201/9781003440901-9.

[2] M. Mohadi and Y. M. A. Tarshany, "Maqasid Al-Shari'ah and the Ethics of Artificial Intelligence: Contemporary Challenges," J. Contemp. Maqasid Stud., vol. 2, no. 2, pp. 79–102, 2023, https://doi.org/10.52100/jcms.v2i2.107.

[3] N. M. Leshchinskaia, M. A. Kolesnik, A. A. Omelik, and T. K. Ermakov, "The Image of Artificial Intelligence in the Series «Black Mirror» (2011–2019)," J. Sib. Fed. Univ. - Humanit. Soc. Sci., vol. 16, no. 8, pp. 1331–1342, 2023, [Online]. Available: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170207926&partnerID=40&md5=ec57d1af855b324380e927a18f6a50b6

[4] A. Barredo Arrieta et al., "Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI," Inf. Fusion, vol. 58, pp. 82–115, 2020, https://doi.org/10.1016/j.inffus.2019.12.012.

[5] A. Prayogi, "Trends of Hadith Studies in Artificial Intelligence Research Works on Google Scholar : A Literature Review," pp. 609–622, 2023.

[6] "2, Artificial Intelligence in Islamic Education."

[7] D. Mhlanga, "Financial inclusion in emerging economies: The application of machine learning and artificial intelligence in credit risk assessment," Int. J. Financ. Stud., vol. 9, no. 3, 2021, https://doi.org/10.3390/ijfs9030039.

[8] G. J. T. Wedy and E. C. V. C. Campos, "Brief Reflections On Artificial Intelligence And Law And The Rule Of Law," Rev. Juridica, vol. 2, no. 74, pp. 259–286, 2023, https://doi.org/10.26668/revistajur.2316-753X.v2i74.4899.

[9] R. Jie, "Rethinking Ethical Identity in the Age of Artificial Intelligence," Interdiscip. Stud. Lit., vol. 8, no. 3, pp. 541–553, 2024, [Online]. Available: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85203650542&partnerID=40&md5=5b3abf9dee13f32cfe9d0360f40805f2

[10] D. Grondin and S. Hogue, "Person of Interest as Media Technology of Surveillance: A Cautionary Tale for the Future of the National Security State With Diegetic Big Data Surveillance, Algorithmic Security, and Artificial Intelligence," Telev. New Media, vol. 25, no. 4, pp. 334–351, 2024, https://doi.org/10.1177/15274764231210280.

[11] J. G. Z. Mambu et al., "Pemanfaatan Teknologi Artificial Intelligence (AI) Dalam Menghadapi Tantangan Mengajar Guru di Era Digital," J. Educ., vol. 06, no. 01, pp. 2689–2698, 2023, https://doi.org/10.31004/joe.v6i1.3304

[12] A. Hadzi, "Social justice and artificial intelligence by Dr. Adnan Hadzi (University of Malta)," Body, Sp. Technol., vol. 18, no. 1, pp. 145–174, 2019, https://doi.org/10.16995/bst.318.

[13] M. Talaei, M. Astaneh, E. Ghiasabadi Farahani, and F. Golzar, "Application of Artificial Intelligence for Predicting CO2 Emission Using Weighted Multi-Task Learning," Energies, vol. 16, no. 16, 2023, https://doi.org/10.3390/en16165956.

[14] G. I. Zekos, Economics and law of artificial intelligence: Finance, economic impacts, risk management and governance. International Hellenic University, Serres, Greece: Springer International Publishing, 2021. https://doi.org/10.1007/978-3-030-64254-9.

[15] S. Syahrizal, F. Yasmi, and T. Mary, "Discourse on Artificial Intelligence Design Using ITS and SDLC Methods in Building Islamic Religious Education Learning Applications," J. Pragmat. Discourse Res., vol. 3, no. 1, pp. 46–28, 2023, https://doi.org/10.51817/jpdr.v3i1.330.

[16] S. Suwartini, "Artificial Intelligence In Global Islamic Education," vol. 27, no. 6, pp. 39–49, 2022, https://doi.org/10.9790/0837-2706033949.

[17] K. Dent, R. Dumond, and M. Kuniavsky, "A Framework for Systematically Applying Humanistic Ethics when Using AI as a Design Material," Temes de Disseny, vol. 2019, no. 35, pp. 178–197, 2019, https://doi.org/10.46467/TdD35.2019.178-197.

[18] P. L. Gandi, P. A. A. Aher, and S. Chowdhary, "Women's safety and empowerment using AI tools," in Wearable Devices, Surveillance Systems, and AI for Women's Wellbeing, Sandip University, Nashik, India: IGI Global, 2024, pp. 264–276. https://doi.org/10.4018/979-8-3693-3406-5.ch016.

[19] D. Donoso and A. M. Gallardo, "Bridging the Gap: Applying AI and Bayesian Statistics to Traditional Educational Leadership Training," Eur. Public Soc. Innov. Rev., vol. 9, 2024, https://doi.org/10.31637/epsir-2024-916.

[20] U. Suryanarayanan, R. Nair, A. Singh, and M. Sharma, "How AI and other Emerging Technologies are Disrupting Traditional HR Practices," in TQCEBT 2024 - 2nd IEEE International Conference on Trends in Quantum Computing and Emerging Business Technologies 2024, Christ University, Bengaluru, India: Institute of Electrical and Electronics Engineers Inc., 2024. https://doi.org/10.1109/TQCEBT59414.2024.10545300.

[21] A. I. Hartafan, A. N. An, and A. Rhain, "Reassessing Intellectual Continuities Between Kalimantan Qur ' anic Scholars and the Muhammadiyah Interpretive Tradition," vol. 4, no. 3, pp. 2–12, 2025.

[22] M. Khanan et al., "Iseedu," vol. 9, no. 2, pp. 168–184, 2025.

[23] A. I. Sari, K. Nugroho, and M. Surakarta, "Quranicons 2025," no. 4, pp. 1–12, 2025.

[24] M. Mahmudulhassan, M. Muthoifin, and S. Begum, "Artificial Intelligence in Multicultural Islamic Education: Opportunities, Challenges, and Ethical Considerations," Solo Univers. J. Islam. Educ. Multicult., vol. 2, no. 01, pp. 19–26, 2024. https://doi.org/10.61455/sujiem.v2i01.114

[25] L. Ding, Z. Zhao, and R. N. McEwen, "Exploratory Review: Trust Dynamics in AI-Enabled Retail Financial Investment Service," in Digest of Technical Papers - IEEE International Conference on Consumer Electronics, Victoria University in the University of Toronto, Emerging Technologies and the Arts Lab, Toronto, Canada: Institute of Electrical and Electronics Engineers Inc., 2024. https://doi.org/10.1109/ICCE59016.2024.10444374.

[26] E. Voigts, D. Elflein, J. Röhnert, R. M. Auer, S. Kunas, and C. Seelinger,

Artificial Intelligence - Intelligent Art?: Human-Machine Interaction and Creative Practice. Technische Universität Braunschweig, Braunschweig, Germany: Transcript-Verlag, 2024. https://doi.org/10.14361/9783839469224.

[27] Mahmudulhassan, W. Waston, A. Nirwana, S. Amini, M. M. A. Sholeh, and M. Muthoifin, "A moral-based curriculum to improve civilization and human resource development in Bangladesh," Multidiscip. Rev., vol. 7, no. 8, p. 2024137, May 2024, https://doi.org/10.31893/multirev.2024137.

[28] A. Nirwana and M. Abuzar, "Islam in Bangladesh: The Legacy of Hazrat Shah Jalal and the Spread of Islam in Bengal," J. Al-Tamaddun, vol. 20, no. 2, pp. 127–144, 2025.

[29] A. M. Rohimat, M. R. Arifin, I. Piliyanti, I. I. Ali, and M. Mahmudulhasan, "Community-Based Research in Culinary Tourism: The Case of the International Fried Duck Festival Kartasura," BISNIS J. Bisnis dan Manaj. Islam, vol. 13, no. 2, pp. 102–117, 2025.

[30] P. Mantello, M.-T. Ho, M.-H. Nguyen, and Q.-H. Vuong, "Bosses without a heart: socio-demographic and cross-cultural determinants of attitude toward Emotional AI in the workplace," AI Soc., vol. 38, no. 1, pp. 97–119, 2023, https://doi.org/10.1007/s00146-021-01290-1.

[31] Mahmudulhassan, Muthoifin, Andri Nirwana, Waston, and Muhammad Abuzar "Islam in Bangladesh: The Legacy of Hazrat Shah Jalal and the Spread of Islam in Bengal Mahmudulhassan, * Muthoifin, ** Andri Nirwana, *** Waston **** & Muhammad Abuzar *****," J. Al-Tamaddun, vol. 20, no. 8, pp. 127–144, 2025, https://doi.org/10.22452/JAT.vol20no2.9.

[32] A. N. A.N., M. Mahmudulhassan, F. D. Marshal, M. Muthoifin, and N. Fadli, "Human rights and social justice in Quranic contexts: a global trend," Leg. J. Ilm. Huk., vol. 32, no. 2, pp. 453–471, Sep. 2024, https://doi.org/10.22219/ljih.v32i2.35088.

[33] M. Mahmudulhassan, W. Waston, and A. N. AN, "The Rights and Status of Widows in Islam: A Study from the Perspective of Multicultural Islamic Education in the Context of Bangladesh," Multicult. Islam. Educ. Rev., vol. 1, no. 1, pp. 1–14, 2023. https://doi.org/10.23917/mier.v1i1.2674

[34] Z. A. Hossein and M. Mahmudulhassan, "Legal Disruption and Sharia Arbitration: Navigating Change, Measuring Impact, and Fostering Innovation," Indones. J. Islam. Econ. Law, vol. 1, no. 1, pp. 39–49, 2024.

[35] A. Diana and M. Z. Azani, "The Concept and Context of Islamic Education Learning in the Digital Era: Relevance and Integrative Studies," Profetika

J. Stud. Islam, vol. 25, no. 01, pp. 33–44, 2024. https://doi.org/10.23917/profetika.v25i01.4239

[36] A. Nguyen, H. N. Ngo, Y. Hong, B. Dang, and B. P. T. Nguyen, "Ethical principles for artificial intelligence in education," Educ. Inf. Technol., vol. 28, no. 4, pp. 4221–4241, 2023, https://doi.org/10.1007/s10639-022-11316-w.

[37] A. Cebulla, Z. Szpak, C. Howell, G. Knight, and S. Hussain, "Applying ethics to AI in the workplace: the design of a scorecard for Australian workplace health and safety," AI Soc., vol. 38, no. 2, pp. 919–935, 2023, https://doi.org/10.1007/s00146-022-01460-9.

[38] C. Shachar, S. Gerke, and E. Y. Adashi, "AI Surveillance during Pandemics: Ethical Implementation Imperatives," Hastings Cent. Rep., vol. 50, no. 3, pp. 18–21, 2020, https://doi.org/10.1002/hast.1125.

[39] S. A. T. M. Saky, M. Z. Azani, M. W. Shohib, and M. N. Islam, "Mapping the Research Landscape: A Bibliometric Analysis of Islam's Role in Sustainable Development," Prism. Sains J. Pengkaj. Ilmu dan Pembelajaran Mat. dan IPA IKIP Mataram, vol. 12, no. 2, p. 338, Mar. 2024, https://doi.org/10.33394/j-ps.v12i2.10942.

[40] S. A. T. M. Saky, N. L. Inayati, and M. N. Islam, "Research Patterns in Formative Assessment: A Bibliometric Review of Primary and Secondary School Studies," Prism. Sains J. Pengkaj. Ilmu dan Pembelajaran Mat. dan IPA IKIP Mataram, vol. 13, no. 1, p. 107, Jan. 2025, https://doi.org/10.33394/j-ps.v13i1.14219.

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