

Analysis of the Influence of Digital Marketing Strategies in Increasing the Accessibility and Attractiveness of Online Education Programmes: A Business and Information Technology Perspective

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ABSTRACT

The digital age has significantly changed the education paradigm. Online education is becoming increasingly popular as an effective and flexible alternative for individuals who want to improve their skills without being bound by geographical and time constraints. However, the success of online education relies heavily on effective digital marketing strategies to increase its accessibility and appeal. The main objective of this study is to analyse the impact and effectiveness of digital marketing strategies in increasing the accessibility and attractiveness of online education programs, focusing on business and information technology perspectives. The research method used in this study is a literature review with a qualitative approach and descriptive analysis. In this context, the literature review will be conducted with a focus on collecting, reviewing and analysing relevant literature from 1981 to 2024. The study results show that digital marketing strategies have a very important role in increasing the accessibility and attractiveness of online education programmes. In particular, the integration between business aspects and information technology is the key to success in optimising marketing performance and achieving business goals of online education institutions.

Keywords: Digital Marketing, Accessibility, Attractiveness, Online Education, Business, Information Technology

INTRODUCTION

The paradigm shift in education, driven by the digital era, has marked a significant transition. Online education, as an increasingly favored alternative, offers flexibility and effectiveness to individuals seeking to enhance their qualifications without being bound by geographical constraints or rigid time limitations (Ausat, 2022). However, the success of online education is not solely determined by its existence as an alternative option but also by its ability to develop effective digital marketing strategies, capable of expanding its reach and appeal to the wider community.

The steady growth in the number of internet users globally has consistently paved the way for new opportunities in the realm of digital marketing. With the expanding internet penetration across various regions, educational organizations find themselves with broader access to implement digital marketing strategies that can reach larger audiences and garner a more significant number of participants for their online education programs (Harini et al., 2023). The presence of increasingly sophisticated and integrated digital marketing tools enables them to target specific market segments, build strong brand images, and promote the strengths of their educational programs more effectively.

Competition within the online education market continues to significantly increase over time. Educational institutions and online learning platforms face challenges in maintaining their positions amid this intense competition. Therefore, there is a need for the careful and effective implementation of digital marketing strategies as a step towards strengthening the appeal of their education programs and creating significant differentiation from competitors in this industry. Well-planned digital marketing strategies will enable them to expand their market reach, increase brand awareness, and build strong engagement with potential participants, ultimately resulting in sustainable competitive advantages (Sudirjo, 2023).

The development of information technology, including but not limited to artificial intelligence, data analytics, and machine learning, has been a major driver in opening up new opportunities in the development of digital marketing strategies across various sectors, including education. By leveraging technological advancements, online educational institutions can enhance personalization, tailor content, and significantly improve user experiences (Fauzi et al., 2023). The presence of these technologies allows for better adaptation to individual needs and enriches educational content with relevant and contextual information. In the context of digital marketing, this leads to increased attractiveness of online education programs, with improved quality and relevance of user experiences, ultimately expanding accessibility and strengthening the market position of these educational institutions.

Changes in consumer preferences in seeking and determining educational programs have become a significant phenomenon. In the current modern era, society tends to search for information online and make decisions based on online reputations, user testimonials, and digital presence of the respective educational institutions (Ausat, 2023). Today, with the increasing integration of digital technology into everyday life, the consumer decision-making process has shifted towards the digital realm. Factors such as user testimonials and online reputation have become crucial determinants in assessing the quality and trustworthiness of an educational program.

Although digital marketing strategies offer many opportunities for online education, there are also several challenges that need to be overcome. Among these challenges are effectively managing brands in the digital realm, protecting data security, and efforts to safeguard user privacy. As the presence of educational institutions in online platforms continues to grow, robust brand management becomes increasingly vital to maintain positive reputations and the trust of potential participants (Khan et al., 2019). Additionally, with the abundance of sensitive data collected and used in the context of online education, data security becomes a major concern to prevent potential data breaches. Furthermore, safeguarding user privacy is also a critical aspect that needs to be seriously considered to ensure that participants' personal information is not misused or unlawfully exposed. Therefore, addressing these challenges requires a holistic and sustainable approach to ensure the success and sustainability of online education in this digital era.

In an era where business and information technology are becoming increasingly intertwined, understanding the optimization of digital marketing strategies becomes crucial in supporting the achievement of business goals, especially in the context of enhancing accessibility and attractiveness of online education programs. Deeper engagement with information technology allows educational institutions to explore new potentials in reaching their target markets more efficiently and effectively (Haleem et al., 2022). This involves a deep understanding of online consumer behavior, careful data analysis to identify trends and preferences, and the use of targeted digital marketing tools to create captivating and engaging campaigns.

Therefore, the main objective of this research is to analyze the impact and effectiveness of digital marketing strategies in enhancing the accessibility and attractiveness of online education programs, with a focus on the business and information technology perspective.

LITERATURE REVIEW

Digital Marketing

Digital marketing is a marketing strategy that utilizes digital platforms and technologies to promote products or services to a target audience (Nadanyiova et al., 2021). It encompasses various techniques such as leveraging social media, content marketing, search engine optimization (SEO), paid advertising (such as Google Ads), email marketing, and others. In the continuously evolving digital ecosystem, digital marketing leverages data and analytics to understand consumer behavior more deeply, enabling advertisers to tailor their messages more precisely. Compared to traditional marketing methods, digital marketing offers greater flexibility and can yield more accurate measurements of campaign performance. Additionally, digital marketing enables direct interaction between brands and consumers through digital platforms, strengthening engagement and building long-term relationships with the audience (Umami & Darma, 2021). Thus, digital marketing has become a key element in modern marketing strategies, especially in businesses oriented towards online and information technology.

Accessibility

Accessibility refers to the level of openness and ease with which an individual or group can access a product, service, or information (Kulkarni, 2019). It includes not only the physical availability of the product or service itself but also the opportunities provided to individuals to utilize it without unnecessary barriers. In the context of online education, accessibility involves aspects such as the availability of learning materials online, clarity in the structure and navigation of learning platforms, adequate technical support, and the ability to access content flexibly from various devices and locations. Therefore, improving accessibility in online education means ensuring that anyone, regardless of their background or circumstances, can easily access and utilize the educational resources offered online without unnecessary constraints (Batanero-Ochaita et al., 2021). This aims to create an inclusive and equitable learning environment for all individuals, which in turn can enhance participation and success in education.

Attraction

Attraction is the ability of a product, service, or program to capture the attention and interest of the target audience or potential consumers (Osei-Frimpong et al., 2019). It involves a combination of various factors that make something appealing or enticing for individuals to engage with or purchase. In the context of online education, the attractiveness of educational programs refers to factors such as the quality of learning content, the reputation of the educational institution, instructor engagement, schedule flexibility, adequate technical support, and expected outcomes from the program. Additionally, aspects such as competitive pricing, attractive promotions, and ease of registration processes can also influence the attractiveness of online educational programs (Chen et al., 2023). Strong attractiveness can not only attract the interest of prospective participants to join the program but also enhance student retention and the overall reputation of the educational institution. Therefore, it is important for providers of online education to understand the factors influencing the attractiveness of their programs and develop appropriate digital marketing strategies to enhance this attractiveness in the eyes of their target audience.

Online Education

Online education is a method of learning conducted over the internet or computer networks. In online education, students can access learning materials, interact with instructors and fellow students, and complete assignments and exams online (Dhawan, 2020). This approach allows individuals to learn without being in the same physical location as the educational institution or instructor. With the development of information and communication technology, online education has evolved into a popular alternative for individuals seeking flexibility in learning time and

location, as well as access to a variety of educational programs from various institutions worldwide (Hollister et al., 2022). Additionally, online education also facilitates distance learning, allowing individuals to acquire skills and knowledge without being limited by geographic boundaries. In some cases, online education may also include interactions in the form of live online lectures, forum discussions, and collaborative projects, creating an interactive and student-centered learning experience.

Business

Business refers to economic activities conducted by individuals or organizations with the aim of gaining profit through the production, distribution, or sale of goods or services to consumers or customers (Sudirjo et al., 2023). It involves various activities, including strategic planning, resource management, marketing, sales, and financial operations (Harahap, Suherlan, et al., 2023). Businesses can operate in various sectors of the economy, ranging from manufacturing industries to financial services, information technology, and education. The main goal of business is to create value for stakeholders, including owners, employees, consumers, and society as a whole (Ausat et al., 2022). To achieve this goal, businesses operate in a dynamic and competitive environment, which demands adaptability, innovation, and effective leadership. Thus, business is a key pillar in the global economy, playing a crucial role in economic growth, job creation, and community development (Zen et al., 2023).

Information Technology

Information technology refers to the use of technology in the collection, processing, storage, and dissemination of information (Sutrisno et al., 2023). It includes various tools and systems used to manage data and communication, including hardware such as computers and mobile devices, software such as applications and digital platforms, and network infrastructure such as the internet and intranet (Harahap, Ausat, et al., 2023). Information technology plays a key role in facilitating access to and exchange of information in various areas of life, including business, education, health, and government. With the advancement of information technology, individuals and organizations can enhance operational efficiency, expand communication reach, and create innovative products and services that meet market needs (Diawati et al., 2023). Additionally, information technology also enables integration between various systems and platforms, creating a connected digital ecosystem that facilitates collaboration and more effective information exchange (Arjang et al., 2023). Thus, information technology serves not only as a tool to enhance productivity and performance but also as a driving force in the social and economic transformation in this digital era (Touriano et al., 2023).

RESEARCH METHOD

The research method used in this study is a literature review with a qualitative approach and descriptive analysis. The qualitative approach allows researchers to understand phenomena in-depth and complexity, as well as to explore various perspectives and interpretations. In this context, the literature review will be conducted with a focus on collecting, reviewing, and analyzing relevant literature on the influence of digital marketing strategies in enhancing the accessibility and attractiveness of online education programs from 1981 to 2024. Descriptive analysis will be used to describe and explain the findings from the collected literature, considering various aspects such as concepts, theories, methodologies, and research outcomes. Data will be gathered from primary sources, especially research articles and scholarly reviews published within the specified time period, using Google Scholar as the primary search platform. After undergoing a rigorous selection process, a total of 34 articles will be used as the basis for analysis in this study. Through this approach, it is expected that this research can provide comprehensive and in-depth insights into the researched topic and make a valuable contribution to understanding the influence of digital marketing strategies in the context of online education.

RESULTS AND DISCUSSION

The modern era marks the arrival of online education as a crucial foundation for those who

aspire to enhance their skills and horizons without being bound by geographical limitations or time constraints. The success of an online education programme depends not only on the quality of the materials and teaching methods, but also on its capacity to reach and engage its intended audience. In this digital age, digital marketing strategies are acquiring an increasingly prominent role in ensuring optimum affordability and enhancing the appeal of online education programmes (Sharma, 2024).

The influence of digital marketing strategies shows a strong connection with the advancement of information technology and its significant impact on various aspects, not just limited to the business domain. The presence of various digital tools and platforms allows online education institutions to double their potential reach to potential audiences, through approaches that can be implemented with higher levels of efficiency and effectiveness (Dwivedi et al., 2023).

One important aspect of digital marketing strategy in the context of online education is search engine optimisation (SEO), a strategic approach to increasing the exposure and attractiveness of online education websites and content. By focusing on improving website rankings in search results, online education institutions can expand their reach, attracting potential students who are exploring different education options (Setiawan et al., 2020). In addition, through paid marketing campaigns such as PPC (Pay-Per-Click) advertising, such institutions can proactively drive traffic to their websites in a fast and efficient manner, opening up opportunities for further interaction and potential conversion.

However, the impact of digital marketing strategies in the realm of online education is not only quantitative, but also contains an important qualitative dimension. In the midst of competition to attract the attention of prospective students, the aspect of attractiveness becomes a crucial point that needs to be emphasised (Chapman, 1981). In this case, the adoption of marketing content that is not only creative but also appealing, such as through the use of dynamic promotional videos, informative webinars, or other interactive content, is able to create a deep impression and generate motivation in the audience to actively engage and even enrol in the educational programmes offered. Thus, an approach that focuses on the attraction aspect of digital marketing strategy is an important foundation for achieving success in gaining the desired participation and conversion.

In addition, the role of social media contributes inevitably to the strategic endeavour of digital marketing for online education. By tapping into the potential of platforms such as Facebook, Instagram and LinkedIn, online education institutions are able to engage directly with potential students (Kaplan & Haenlein, 2010). Through these channels, information regarding educational programmes can be conveyed more effectively, while the formation of a dedicated community can be strengthened, forming a stronger fabric around the institution's image and activities.

Data analysis is not only an aspect, but it also plays a very important role in developing an effective digital marketing strategy. By utilising various web analytics tools and social media platforms, online educational institutions have the ability to monitor the performance of their marketing campaigns in real-time. With the data collected, they can identify relevant trends in user behaviour, gaining deep insights into their preferences and needs (Lim & Rasul, 2022). Furthermore, through such analyses, institutions can adopt a responsive approach, leading to appropriate and necessary strategy adjustments to improve the effectiveness and results of their marketing efforts.

This means that the implications of implementing digital marketing strategies in increasing the accessibility and attractiveness of online education programmes are significant and cannot be ignored. Through the utilisation of the various digital tools and platforms available, online education institutions are able to reach their potential audiences with a higher level of efficiency and effectiveness than ever before. Most importantly, these efforts are not only focused on increasing reach, but also maintaining high quality standards in the delivery of online learning materials and experiences. Thus, combining digital marketing strategies with a commitment to educational quality is an important foundation for the success and sustainability of online education programmes.

In examining the implications of digital marketing strategies, it is essential to examine in more depth how the integration of business and information technology dimensions becomes a

critical point in optimising the accessibility and attractiveness of online education programmes. This integration results in a framework that allows online education institutions to not only expand their reach through various digital platforms, but also pay attention to the holistic user experience (Dwivedi et al., 2021). By combining careful marketing strategies with the right technological infrastructure, institutions can create an ecosystem that supports effective learning, while keeping in mind the individual needs and preferences of prospective students. Therefore, a deep understanding of the relationship between business aspects and information technology cannot be overlooked in designing and executing a successful digital marketing strategy for online education.

From a business perspective, digital marketing strategies play a vital role in facilitating online education institutions to explore and understand the needs and preferences of prospective students more accurately and deeply (Mohamed Hashim et al., 2022). By conducting a comprehensive analysis of data related to the online behaviour, demographics, and interests of potential audiences, these educational institutions can formulate marketing messages that are not only appropriate, but also relevant to the needs of the intended market. Through this approach, they are able to create highly competitive marketing campaigns, reach their target market with maximum effectiveness, and ultimately, increase the chances of attracting and converting potential students into active participants in their online education programmes.

In addition, digital marketing strategies also enable online education institutions to initiate a more personalised and focused user experience (Nuseir et al., 2023). Through the application of advanced technologies such as predictive analytics and audience segmentation, these institutions can design content that is tailored specifically to individual interests and needs, creating a more engaging and relevant learning experience for each student. By doing this, they not only increase the chances for a successful conversion, but also strengthen student retention rates, leading to a more sustainable relationship between the educational institution and its learners.

From an information technology perspective, a digital marketing strategy becomes a broad canvas to utilise various technology tools and platforms to achieve set marketing goals. Through the application of advanced data analysis technologies and artificial intelligence, online education institutions are able to gain deep insights into market trends and consumer behaviour, and can even predict the direction of change with high accuracy (Ding et al., 2023). By utilising data effectively, they can adjust their marketing strategies in real-time, providing a quick and appropriate response to changing market dynamics. In addition, the synergistic integration between content management systems, customer relationship management systems, and automated marketing platforms enables the creation of a well-integrated marketing ecosystem, resulting in a more efficient and effective marketing process in achieving set goals.

However, implementing an effective digital marketing strategy comes with many challenges that need to be overcome. The fierce competitive environment in the online education market requires institutions to constantly innovate and update their marketing approaches to stay relevant amidst changing market dynamics. In addition, data privacy regulatory uncertainties are also in focus, as online education institutions are required to ensure that their practices are aligned with applicable data protection regulations, while maintaining integrity and customer trust. In the face of these challenges, online education institutions should adopt a proactive and forward-looking approach, prioritising regulatory compliance and innovation excellence as key pillars in their quest for digital marketing success.

Thus, in assessing the impact of digital marketing strategies on increasing the accessibility and attractiveness of online education programmes, it is necessary to holistically review the business and information technology aspects. The careful integration of these two fields plays a central role in optimising marketing performance and achieving the business objectives of online education institutions amidst the complexity of challenges and opportunities that characterise the current digital era. In this context, a strategic blend of a deep understanding of market dynamics with the appropriate application of technology can give online education institutions a significant competitive advantage, enabling them to thrive and survive in an increasingly competitive and dynamic marketplace.

CONCLUSION

The conclusion of the presentation is that digital marketing strategies play a crucial role in enhancing the accessibility and appeal of online educational programs. Specifically, the integration of business and information technology aspects is key to success in optimizing marketing performance and achieving the business goals of online educational institutions. Recommendations that can be given are: 1. Focus on Content Quality and Teaching: Despite the importance of digital marketing strategies, it should not be forgotten that the quality of content and teaching remains a primary factor in the success of online educational programs. Ensure that content and teaching meet high-quality standards to maintain student satisfaction and retention. 2. Use Data Analytics Tools: Utilize data analytics tools to understand online behavior, demographics, and interests of potential audiences. Thus, you can develop relevant marketing messages and deliver content tailored to individual interests and needs. 3. Continuously Innovate: The fierce competition in the online education market demands institutions to continuously innovate their marketing strategies. Always monitor market trends and student responses to identify new opportunities and constantly update your marketing strategies. 4. Consider Data Privacy Compliance: In implementing digital marketing strategies, ensure to pay attention to applicable data privacy regulations. Ensure your compliance with relevant data protection regulations to avoid legal risks and build trust with your audience. 5. Integrate Business and Information Technology: It's important to understand that the success of digital marketing strategies depends on the integration of business and information technology aspects. Ensure your team consists of individuals who understand both fields and can collaborate to achieve your marketing and business goals. By implementing these recommendations and considering the conclusions presented, online educational institutions can enhance the effectiveness of their digital marketing strategies and achieve greater success in addressing the challenges and opportunities in this digital era.

REFERENCES

- Arjang, A., Sutrisno, S., Permana, R. M., Kusumastuti, R., & Ausat, A. M. A. (2023). Strategies for Improving the Competitiveness of MSMEs through the Utilisation of Information and Communication Technology. *Al-Buhuts*, 19(1), 462–478.
- Ausat, A. M. A. (2022). Positive Impact of The Covid-19 Pandemic on The World of Education. *Jurnal Pendidikan*, 23(2), 107–117. <https://doi.org/10.33830/JP.V23I2.3048.2022>
- Ausat, A. M. A. (2023). The Role of Social Media in Shaping Public Opinion and Its Influence on Economic Decisions. *Technology and Society Perspectives (TACIT)*, 1(1), 35–44. <https://journal.literasisainsnusantara.com/index.php/tacit/article/view/37>
- Ausat, A. M. A., Widayani, A., Rachmawati, I., Latifah, N., & Suherlan, S. (2022). The Effect of Intellectual Capital and Innovative Work Behavior on Business Performance. *Journal of Economics, Business, & Accountancy Ventura*, 24(3), 363–378. <https://doi.org/10.14414/jebav.v24i3.2809>
- Batanero-Ochaita, C., De-Marcos, L., Rivera, L. F., Holvikivi, J., Hilera, J. R., & Tortosa, S. O. (2021). Improving Accessibility in Online Education: Comparative Analysis of Attitudes of Blind and Deaf Students Toward an Adapted Learning Platform. *IEEE Access*, 9, 99968–99982. <https://doi.org/10.1109/ACCESS.2021.3095041>
- Chapman, D. W. (1981). A Model of Student College Choice. *The Journal of Higher Education*, 52(5), 490. <https://doi.org/10.2307/1981837>
- Chen, S., Song, Y., & Gao, P. (2023). Environmental, social, and governance (ESG) performance and financial outcomes: Analyzing the impact of ESG on financial performance. *Journal of Environmental Management*, 345, 118829. <https://doi.org/10.1016/j.jenvman.2023.118829>
- Dhawan, S. (2020). Online Learning: A Panacea in the Time of COVID-19 Crisis. *Journal of Educational Technology Systems*, 49(1), 5–22. <https://doi.org/10.1177/0047239520934018>
- Diawati, P., Gadzali, S. S., Abd Aziz, M. K. N., Ausat, A. M. A., & Suherlan, S. (2023). The Role of Information Technology in Improving the Efficiency and Productivity of Human Resources in the Workplace. *Jurnal Teknologi Dan Sistem Informasi Bisnis*, 5(3), 296–302. <https://doi.org/https://doi.org/10.47233/jteksis.v5i3.872>

- Ding, H., Tian, J., Yu, W., Wilson, D. I., Young, B. R., Cui, X., Xin, X., Wang, Z., & Li, W. (2023). The Application of Artificial Intelligence and Big Data in the Food Industry. *Foods*, 12(24), 4511. <https://doi.org/10.3390/foods12244511>
- Dwivedi, Y. K., Ismagilova, E., Hughes, D. L., Carlson, J., Filieri, R., Jacobson, J., Jain, V., Karjaluoto, H., Kefi, H., Krishen, A. S., Kumar, V., Rahman, M. M., Raman, R., Rauschnabel, P. A., Rowley, J., Salo, J., Tran, G. A., & Wang, Y. (2021). Setting the future of digital and social media marketing research: Perspectives and research propositions. *International Journal of Information Management*, 59, 102168. <https://doi.org/10.1016/j.ijinfomgt.2020.102168>
- Dwivedi, Y. K., Kshetri, N., Hughes, L., Slade, E. L., Jeyaraj, A., Kar, A. K., Baabdullah, A. M., Koohang, A., Raghavan, V., Ahuja, M., Albanna, H., Albashrawi, M. A., Al-Busaidi, A. S., Balakrishnan, J., Barlette, Y., Basu, S., Bose, I., Brooks, L., Buhalis, D., ... Wright, R. (2023). "So what if ChatGPT wrote it?" Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy. *International Journal of Information Management*, 71, 102642. <https://doi.org/10.1016/j.ijinfomgt.2023.102642>
- Fauzi, F., Tuhuteru, L., Sampe, F., Ausat, A. M. A., & Hatta, H. R. (2023). Analysing the Role of ChatGPT in Improving Student Productivity in Higher Education. *Journal on Education*, 5(4), 14886–14891. <https://doi.org/10.31004/joe.v5i4.2563>
- Haleem, A., Javaid, M., Qadri, M. A., & Suman, R. (2022). Understanding the role of digital technologies in education: A review. *Sustainable Operations and Computers*, 3, 275–285. <https://doi.org/10.1016/j.susoc.2022.05.004>
- Harahap, M. A. K., Ausat, A. M. A., Rachman, A., Riady, Y., & Azzaakiyyah, H. K. (2023). Overview of ChatGPT Technology and its Potential in Improving Tourism Information Services. *Jurnal Mininfo Polgan*, 12(2), 424–431. <https://doi.org/10.33395/jmp.v12i2.12416>
- Harahap, M. A. K., Suherlan, S., Rijal, S., & Ausat, A. M. A. (2023). Defining the Business Philosophy Foundation for Sustainable Business Education. *Journal on Education*, 5(4), 15776–15783. <https://doi.org/10.31004/joe.v5i4.2690>
- Harini, H., Wahyuningtyas, D. P., Sutrisno, S., Wanof, M. I., & Ausat, A. M. A. (2023). Marketing Strategy for Early Childhood Education (ECE) Schools in the Digital Age. *Jurnal Obsesi : Jurnal Pendidikan Anak Usia Dini*, 7(3), 2742–2758. <https://doi.org/10.31004/obsesi.v7i3.4454>
- Hollister, B., Nair, P., Hill-Lindsay, S., & Chukoskie, L. (2022). Engagement in Online Learning: Student Attitudes and Behavior During COVID-19. *Frontiers in Education*, 7, 1–16. <https://doi.org/10.3389/educ.2022.851019>
- Kaplan, A. M., & Haenlein, M. (2010). Users of the world, unite! The challenges and opportunities of Social Media. *Business Horizons*, 53(1), 59–68. <https://doi.org/10.1016/j.bushor.2009.09.003>
- Khan, I., Hollebeek, L. D., Fatma, M., Islam, J. U., & Rahman, Z. (2019). Brand engagement and experience in online services. *Journal of Services Marketing*, 34(2), 163–175. <https://doi.org/10.1108/JSM-03-2019-0106>
- Kulkarni, M. (2019). Digital accessibility: Challenges and opportunities. *IIMB Management Review*, 31(1), 91–98. <https://doi.org/10.1016/j.iimb.2018.05.009>
- Lim, W. M., & Rasul, T. (2022). Customer engagement and social media: Revisiting the past to inform the future. *Journal of Business Research*, 148, 325–342. <https://doi.org/10.1016/j.jbusres.2022.04.068>
- Mohamed Hashim, M. A., Tlemsani, I., & Matthews, R. (2022). Higher education strategy in digital transformation. *Education and Information Technologies*, 27(3), 3171–3195. <https://doi.org/10.1007/s10639-021-10739-1>
- Nadanyiova, M., Majerova, J., & Gajanova, L. (2021). Digital marketing, competitive advantage, marketing communication, social media, consumers. *Marketing and Management of Innovations*, 5(4), 92–103. <https://doi.org/10.21272/mmi.2021.4-08>

- Nuseir, M. T., El Refae, G. A., Aljumah, A., Alshurideh, M., Urabi, S., & Kurdi, B. Al. (2023). Digital Marketing Strategies and the Impact on Customer Experience: A Systematic Review. In *The Effect of Information Technology on Business and Marketing Intelligence Systems* (pp. 21–44). Springer. https://doi.org/10.1007/978-3-031-12382-5_2
- Osei-Frimpong, K., Donkor, G., & Owusu-Frimpong, N. (2019). The Impact of Celebrity Endorsement on Consumer Purchase Intention: An Emerging Market Perspective. *Journal of Marketing Theory and Practice*, 27(1), 103–121. <https://doi.org/10.1080/10696679.2018.1534070>
- Setiawan, A., Harahap, Z., Syamsuar, D., & Kunang, Y. N. (2020). The Optimization of Website Visibility and Traffic by Implementing Search Engine Optimization (SEO) in Palembang Polytechnic of Tourism. *CommIT (Communication and Information Technology) Journal*, 14(1), 31. <https://doi.org/10.21512/commit.v14i1.5953>
- Sharma, S. (2024). Marketing in the Digital Age - Adapting to Changing Consumer Behavior. *International Journal of Management and Business Intelligence*, 2(1), 1–14. <https://doi.org/10.59890/ijmbi.v2i1.1330>
- Sudirjo, F. (2023). Marketing Strategy in Improving Product Competitiveness in the Global Market. *Journal of Contemporary Administration and Management (ADMAN)*, 1(2), 63–69. <https://doi.org/10.61100/adman.v1i2.24>
- Sudirjo, F., Diantoro, K., Al-Gasawneh, J. A., Azzaakiyyah, H. K., & Ausat, A. M. A. (2023). Application of ChatGPT in Improving Customer Sentiment Analysis for Businesses. *Jurnal Teknologi Dan Sistem Informasi Bisnis*, 5(3), 283–288. <https://doi.org/https://doi.org/10.47233/jteksis.v5i3.871>
- Sutrisno, Ausat, A. M. A., Permana, B., & Harahap, M. A. K. (2023). Do Information Technology and Human Resources Create Business Performance: A Review. *International Journal of Professional Business Review*, 8(8), e02206. <https://doi.org/10.26668/businessreview/2023.v8i8.2206>
- Touriano, D., Sutrisno, S., Kuraesin, A. D., Santosa, S., & Ausat, A. M. A. (2023). The Role of Information Technology in Improving the Efficiency and Effectiveness of Talent Management Processes. *Jurnal Minfo Polgan*, 12(2), 539–548. <https://doi.org/https://doi.org/10.33395/jmp.v12i2.12454>
- Umami, Z., & Darma, G. S. (2021). Digital Marketing: Engaging Consumers with Smart Digital Marketing Content. *JMK*, 23(2), 94–103.
- Zen, A., Rahayu, P. P., Mutoffar, M. M., Astutik, W. S., & Ausat, A. M. A. (2023). Entrepreneurship in Existentialism Philosophy: Examining Life and Business. *Innovative: Journal Of Social Science Research*, 3(2), 2230–2240. <https://doi.org/https://doi.org/10.31004/innovative.v3i2.431>