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The Role of ChatGPT in Improving the Efficiency of Business Communication in Management Science

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ABSTRACT

In the era of globalisation and rapidly growing information technology, business communication has become one of the critical aspects of management science that plays an important role in the success of an organisation. Efficient business communication can lead to better collaboration, faster decision-making, and improve overall organisational productivity and performance. This research aims to investigate in depth about the role of ChatGPT in improving the efficiency of business communication in management science. The current research type is qualitative. Data collection techniques include listening and recording important information to conduct data analysis through data reduction, data display, and conclusion drawing. The study results show that in the everevolving era of technology and digitalisation, ChatGPT has proven itself as an effective tool in improving the efficiency of business communication in management science. From improving the responsiveness and availability of communication, data analysis, strategic support, to facilitating collaboration, development, and innovation, ChatGPT provides organisations with a variety of advantages in various aspects of their operations.

Keyword: ChatGPT, Efficiency, Business Communication, Management Science

INTRODUCTION

In the context of globalisation and the rapid advancement of information technology, effective corporate communication has emerged as a crucial element within the field of management science, exerting a significant influence on the overall success of an organisation (Schindler et al., 2021). Effective corporate communication has the potential to enhance cooperation, expedite decision-making processes, and bolster the overall productivity and performance of a company (Bucăța & Rizescu, 2017).

Business communication encompasses the dynamic exchange of information and ideas among diverse stakeholders both within and outside an organisation (Kujala et al., 2022). These stakeholders include but are not limited to managers and employees, different departments within the organisation, as well as customers and business partners. Hence, a range of communication technologies has been devised to enhance the effectiveness of business communication, encompassing email, telephone, instant messaging programmes, and similar platforms.





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The proliferation of technology has led to the emergence of artificial intelligence (AI) as a transformative invention that is reshaping the landscape of corporate communication. One notable example of artificial intelligence (AI) utilised in communication is ChatGPT. ChatGPT is an AI system that operates on natural language processing techniques, enabling it to effectively address inquiries and engage in textual interactions with users (Ausat, Suherlan, et al., 2023).

Previous research has shown that ChatGPT has great potential in helping to improve the efficiency of business communication in various contexts. (Harahap, Junianto, et al., 2023) conducted research that aimed to explore the use of ChatGPT in building personalised business services by overcoming existing challenges. The focus of the study was mainly qualitative. The study concluded that the use of ChatGPT in building personalised business services offers great potential for improving customer experience, operational efficiency and marketing outcomes. By leveraging ChatGPT's ability to interact in natural language, provide personalised recommendations, deliver responsive customer support, and collect valuable data, businesses can create better customer experiences, build more personalised relationships, and improve their business success. (Sudirjo, Ausat, et al., 2023) also conducted research with the aim of assessing the potential of ChatGPT in improving the communication efficiency of MSMEs. Their study came to the conclusion that the utilisation of artificial intelligence technologies such as ChatGPT can provide great benefits to MSMEs in improving communication efficiency and overall business management. In addition, some of the benefits identified include:

- 1. Responsive and Available 24/7: ChatGPT can respond to queries and requests from users quickly and is continuously available, thus helping to overcome the limitations of human working hours and providing easy access to information at any time.
- 2. Reduced Response Time: With its ability to respond immediately to enquiries, ChatGPT can reduce the response time typically required in traditional business communications such as emails or letters.
- 3. Simplified Language: ChatGPT can break down technical language or complex terms in management science into simpler and easier-to-understand language, thus facilitating communication between different levels of employees in the organisation.
- 4. Improved Decision-Making Efficiency: With the help of ChatGPT, managers can more quickly access relevant data and information for better and timely decision making.
- 5. Improved Customer Service: ChatGPT can be used as a virtual assistant in providing customer support and assistance quickly and accurately, increasing overall customer satisfaction.

Although ChatGPT has the potential to enhance business communication efficiency, additional research is required to ascertain the current obstacles and constraints associated with its usage. Furthermore, optimising its performance in various business contexts necessitates further investigation.

Hence, the primary objective of this study is to conduct a comprehensive investigation into the impact of ChatGPT on enhancing the efficacy of business communication within the field of management science. This research aims to examine the benefits and barriers associated with the utilisation of ChatGPT in the realm of business communication. By analysing pertinent literature, it seeks to identify the advantages and challenges of employing this technology. Additionally, this study intends to offer recommendations on how to effectively and optimally utilise ChatGPT in order to enhance the quality and efficiency of communication within the field of management science.

LITERATURE REVIEW

ChatGPT

ChatGPT stands for "Chat Generative Pre-trained Transformer," which is one of the implementations of natural language processing (NLP) based artificial intelligence developed by OpenAI. ChatGPT is a variant of Transformer-based models that are pre-trained and developed to perform tasks related to natural language processing (Sudirjo, Diantoro, et al., 2023). The ChatGPT model, specifically GPT-3 (Generative Pre-trained Transformer 3), is one of the largest and most advanced NLP models ever created by OpenAI. GPT-3 consists of 175 billion parameters, which allows it to have a very deep understanding of language and can produce high quality text. GPT-3





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is designed to "use the understanding" of human language that it has learnt from massive training data, including books, articles, websites and more. As such, it can answer questions, complete sentences, translate text, and even perform creative tasks such as writing essays or stories (Subagia et al., 2023). ChatGPT, as part of GPT-3, is designed to interact with users via text in a conversational format such as chat or instant messaging. Users can provide text input in the form of questions or statements, and ChatGPT will respond with relevant and informative text (Ausat, Rachman, et al., 2023). One of the key advantages of ChatGPT is its ability to generate text that is more natural and responsive than previous NLP models. This allows ChatGPT to be used in a variety of applications, including customer support, virtual helpers, information retrieval, and more. However, despite its advanced capabilities, ChatGPT also has limitations. The model may produce answers that are incorrect, not completely accurate, or not in line with the user's wishes. Additionally, it may lack predictability as the responses it generates are based on training data and do not always take the full context into consideration. Overall, ChatGPT is one of the latest examples of advancements in the field of natural language-based artificial intelligence and offers the potential to improve communication efficiency in a variety of business and non-business applications.

Efficiency

Efficiency refers to the degree of success or effectiveness in using resources to achieve a particular goal (Kozlowski & Ilgen, 2006). In simpler terms, efficiency measures the extent to which a system, process or individual can achieve a desired result using a minimal amount of resources. In the context of business and management, efficiency is very important as it is closely related to the productivity and overall performance of an organisation. Efficiency seeks to achieve maximum results with minimal cost, time, or effort (Mikalef et al., 2019). Some examples of the concept of efficiency in various contexts are:

- 1. Operational Efficiency: This relates to how an organisation or company manages its internal processes to achieve optimal results. For example, the use of technology, automation, and optimised processes can improve operational efficiency.
- 2. Energy Efficiency: In an environmental context, energy efficiency refers to the efficient use of energy to reduce waste and negative environmental impacts.
- 3. Labour Efficiency: This covers how the workforce is organised and managed to achieve high levels of productivity with the optimal number of employees.
- 4. Cost Efficiency: Measures how well an organisation manages expenses and costs to produce goods or services. Cost reduction while maintaining quality can improve efficiency.
- 5. Time Efficiency: Relates to the effective use of time in completing a task or project. Minimising the time spent to achieve goals can improve efficiency.
- 6. Efficiency in Communication: Involves how communication within the organisation and with business partners is organised to ensure a smooth and timely flow of information.

The role of technology, such as artificial intelligence (AI) and automation, has contributed significantly to improving efficiency in various fields. These technologies help automate routine tasks, analyse data quickly, and improve responsiveness in business and management processes. Optimising efficiency is a relevant goal in various industries and organisations, as it can help increase competitiveness, reduce waste, improve product and service quality, and achieve strategic goals more effectively.

Business Communication

Business communication refers to the exchange of information, ideas, notions and messages between individuals, departments or organisations that deal with business activities (Harahap, Suherlan, et al., 2023). Business communication plays an important role in managing day-to-day operations, coordinating tasks and projects, and facilitating relationships with customers, business partners and other stakeholders (Shakeri & Khalilzadeh, 2020). Key aspects of business communication include:

1. Internal Communication: This is the flow of information and messages between team members, employees, and departments within an organisation. Internal communication plays a crucial





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role in coordinating business activities, communicating policies and procedures, and ensuring consistent understanding within the organisation.

- 2. External Communication: Related to communication between the organisation and external parties such as customers, suppliers, business partners, regulators, and the public. External communication aims to build good relationships with outside stakeholders, promote brands and products, and fulfil customer needs.
- 3. Marketing Communications and Promotions: Involves the use of marketing messages and campaigns to promote products or services and convince customers to buy or interact with the company.
- 4. Crisis Communication: Occurs when a company faces an emergency or crisis situation that affects its image and reputation. Crisis communication includes how to deal with and provide information to stakeholders during a crisis situation.
- 5. Oral and Written Communication: Includes face-to-face meetings, telephone conferences, emails, letters, business reports, presentations, and so on. Oral communication allows for interactive discussions and quick exchange of information, while written communication provides an official record and reference for the future.
- 6. Social Media and Digital Communications: In the digital age, organisations also communicate through social media platforms, websites, and blogs to reach a wider audience and interact with customers online.

The importance of business communication lies in its ability to help organisations achieve their business goals by avoiding confusion, improving collaboration, reducing errors, and strengthening relationships with stakeholders. Effective business communication also plays an important role in building trust with customers and maintaining a positive image of the company.

Management Science

Management Science is a discipline that studies how to plan, organise, direct, and control the resources and activities of an organisation with the aim of achieving specific goals (Abubakar et al., 2019). Management Science involves various concepts, theories, and practices used to manage businesses, organisations, and projects efficiently and effectively (Japhet, 2021). Some of the key elements in Management Science include:

- 1. Planning: This is the process of setting goals and identifying the actions required to achieve those goals. Planning involves determining strategies, developing work plans, and allocating resources to achieve expected results.
- 2. Organising: This involves the organisational structure, division of tasks, and arrangement of resources so that work can be done efficiently and coordination between parts of the organisation is achieved.
- 3. Leading: Directing or leadership is the ability to influence, motivate, and give direction to employees or team members to achieve set goals. It involves developing leadership, effective communication, and problem-solving skills.
- 4. Controlling: This is the process of monitoring the organisation's performance, comparing it to the goals it has set, and taking corrective action if needed. Controlling helps the organisation stay on track and address potential problems or discrepancies.
- 5. Human Resource Management: Managing human resources is an important part of Management Science, including recruitment, training, development, and appraisal of employees to ensure the organisation has a qualified and skilled workforce.
- 6. Operations Management: It focuses on planning and controlling the process of production or service provision to achieve efficiency and effectiveness in business operations.
- 7. Strategic Management: This involves setting the long-term vision and mission of the organisation, identifying opportunities and threats in the external environment, and developing strategies to achieve long-term goals.

Management Science is interdisciplinary and can be applied in various sectors and industries, including business, non-profit organisations, government, education, healthcare, technology, and others. Management Science plays a key role in optimising resources and processes





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to achieve efficiency, improve the quality of products and services, and achieve competitive advantage in a competitive global marketplace (Farida & Setiawan, 2022).

RESEARCH METHOD

This research aims to analyse the role of ChatGPT in improving the efficiency of business communication in management science. In this study, researchers conducted library research so that there was no need to go directly to the field during the data collection process, but rather examine various reference sources that support this research. The literature was obtained from online media and databases from journal portals that are in accordance with the keywords related to this discussion, namely the role of ChatGPT in improving the efficiency of business communication in management science. The author does not focus on specific journal portals or online media in determining relevant reference sources such as referring to the Emerald Insight, ResearchGate, and Elsevier journal portals, but is more flexible. In this article, with a focus on the role of ChatGPT in improving the efficiency of business communication in management science, the author makes these keywords the focus of the search so as not to widen the main discussion. The search for journals, articles and publications was mostly in the range of articles published between 2000 and 2023. Not all articles, journals and publications that appear in the search results will be used, but only those related to the role of ChatGPT in improving business communication efficiency in management science.

This research is a type of qualitative research. Data collection techniques include listening and recording important information to conduct data analysis through data reduction, data display, and conclusion drawing to obtain a picture of the conclusions regarding the literature study that will be developed in this study. Data validation uses triangulation of data sources.

RESULTS AND DISCUSSION

The use of artificial intelligence technology has changed many aspects of our lives, including the way businesses operate. One significant example is the use of language models such as ChatGPT (Generative Pre-trained Transformer) developed by OpenAI. ChatGPT is an example of an artificial intelligence application that uses natural language processing (NLP) modelling technology to create more efficient and effective communication tools in a business environment, especially in management science.

1. Improving Communication Responsiveness and Availability

In the context of the highly competitive corporate environment, the attribute of responsiveness assumes utmost significance. ChatGPT has the capability to be seamlessly included into many communication platforms, including email, instant messaging systems, and chatbots. This integration enables the provision of prompt responses to inquiries and requests from employees, business partners, or customers. The utilisation of ChatGPT enables managers to enhance their ability to respond to inquiries, offer direction, and address concerns with greater efficiency (Fauzi et al., 2023). This heightened efficiency facilitates the expeditious acquisition of crucial information, hence enabling quick decision-making in the realm of corporate operations.

2. Improve Data Analysis and Decision Making

The effectiveness of management is contingent upon the precise and punctual analysis of data (Hautala-Kankaanpää, 2023). ChatGPT has the capability to effectively gather, handle, and evaluate intricate business data derived from diverse sources such as financial reports, sales data, and client feedback. The natural language processing capabilities of ChatGPT facilitate the expeditious retrieval of crucial data, empowering managers to get enhanced insights into corporate performance and identify avenues for growth. The findings derived from these analyses can be utilised to enhance and optimise decision-making processes.

3. Support Strategic Development Plans

Communication efficiency refers to the ability of team members within an organisation to effectively comprehend and interpret information shared amongst themselves (Sonmez Cakir & Adiguzel, 2020). ChatGPT has the potential to facilitate the creation and formulation of strategic development plans by means of interactive sessions including stakeholders, peers, or other





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departments within a business organisation. The active participation of ChatGPT in discussions and collaborative efforts facilitates the effective articulation of the organization's vision, mission, and goals, as well as the development of comprehensive tactical strategies.

4. Optimising Project Management

Business undertakings frequently entail the collaboration of diverse individuals who possess distinct roles and adhere to varying timetables (Ausat et al., 2022). ChatGPT has the potential to serve as a valuable tool in the realm of project management, functioning as an assistant that aids in the organisation of schedules, timely reminders of impending deadlines, and effective coordination of team duties. Implementing this strategy can effectively decrease the likelihood of deadlines being overlooked, therefore providing managers with enhanced insight into the overall advancement of the project.

5. Improving Customer Service

Within the field of management science, the provision of customer service is widely recognised as a pivotal element in achieving favourable outcomes for businesses (Rita et al., 2019). ChatGPT serves as an intelligent conversational agent that may be effectively employed in customer service settings to promptly address inquiries and offer pertinent resolutions to customers' issues. The implementation of ChatGPT enables clients to obtain assistance promptly and without being constrained by limited service hours. Consequently, this enhances customer happiness and fosters the development of customer loyalty.

6. Offer Training and Development Support

ChatGPT can serve as a valuable tool for employees, functioning as a personal assistant to offer assistance in training and enhancing their skill sets (Ayinde et al., 2023). ChatGPT possesses inherent linguistic capabilities that enable it to offer personalised instruction and pertinent educational resources tailored to the specific requirements of each user. This approach facilitates the enhancement of efficiency in the acquisition of novel knowledge and abilities that are essential for augmenting productivity inside the workplace.

7. Facilitate Cross-Language Communication

Contemporary enterprises frequently engage in operations across global markets characterised by diverse linguistic and cultural contexts (Vlad & Stan, 2013). ChatGPT possesses the capability to swiftly and precisely translate textual content across diverse languages, hence expediting efficient communication among teams, business associates, and clientele hailing from varying cultural contexts. This facilitates the resolution of linguistic obstacles and expands prospects for effective global cooperation.

The importance of ChatGPT in enhancing the efficacy of business communication within the field of management science is extensive and diverse. ChatGPT contributes to the enhancement of enterprises by facilitating increased communication responsiveness and availability, enabling more efficient data analysis and decision-making processes, providing assistance in strategic planning and project management, so fostering competitiveness and innovation. The integration of artificial intelligence in enterprises has the potential to yield substantial advantages, enhancing their adaptability, efficiency, and responsiveness in the face of difficulties arising from globalisation and advancements in technology.

In the realm of commerce, the establishment of a positive user experience holds utmost importance in fostering consumer loyalty and cultivating enduring partnerships. The utilisation of ChatGPT in client interactions facilitates the provision of a heightened level of personalization and relevance. For instance, ChatGPT possesses the capability to discern consumer preferences, so enabling it to offer tailored product or service recommendations that align with their specific requirements. Additionally, it facilitates the provision of enhanced personalised assistance to particular customers. Through this approach, clients have a sense of being nurtured and esteemed, consequently leading to an elevation in levels of customer satisfaction and retention. Within the context of regular corporate operations, a multitude of administrative activities necessitate timely completion. ChatGPT has the capability to function as an administrative assistant, providing support to managers in tasks such as scheduling, meeting and deadline reminders, compilation of to-do lists, and even assistance in report compilation (Basir et al., 2023). Therefore, by minimising the time and effort devoted to administrative chores, managers are able to allocate greater attention



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to strategic goals and the advancement of the firm. Furthermore, the optimisation of communication efficiency plays a crucial role in enhancing the level of collaboration among team members. ChatGPT serves as a versatile platform for facilitating virtual meetings, group discussions, and brainstorming sessions, hence enhancing team members' ability to engage in more efficient and effective interactions (Harahap, Ausat, et al., 2023). The utilisation of ChatGPT in the context of team collaboration facilitates a heightened efficacy in the dissemination of ideas and information, hence fostering an environment conducive to innovation and proactive engagement.

Within the field of management science, it is widely recognised that knowledge holds significant value and hence need effective management strategies. ChatGPT has the potential to serve as a foundation for constructing an internal knowledge system, which facilitates the accumulation and retention of useful information (Lo, 2023). This encompasses a wide range of pertinent knowledge, such as operational instructions, work procedures, and insights derived from previous encounters and experiences. By providing team members with convenient and expeditious access to this knowledge, they are able to enhance their problem-solving capabilities and mitigate the likelihood of repeating errors.

The cultivation of innovation has a pivotal role in fostering sustained economic expansion and achievement (Diawati et al., 2023). ChatGPT has the potential to facilitate the research and development of novel products or services by aiding in the acquisition of information and insights from many sources (Dwivedi et al., 2023). The utilisation of ChatGPT can expedite the research process and enhance the efficacy of market trend identification and the discovery of novel prospects. Consequently, this has the potential to facilitate swifter and more precise innovation. Ultimately, it is imperative to acknowledge the transformative impact of technological advancements and the process of digitalization on the operational landscape of enterprises. ChatGPT has the potential to assist enterprises in addressing these difficulties through the provision of intelligent and pioneering technological solutions (Ausat, Azzaakiyyah, et al., 2023). The integration of artificial intelligence technologies, such as ChatGPT, enables firms to enhance their adaptability to market fluctuations and optimise technological utilisation to enhance competitiveness.

The significance and breadth of ChatGPT's involvement in enhancing the efficacy of business communication within the field of management science cannot be overstated. ChatGPT serves as an intelligent assistant that aids organisations in enhancing their adaptability, innovation, and competitiveness within the dynamic digital era. It achieves this by enhancing communication responsiveness and availability, facilitating decision-making, strategic planning, and project management, as well as fostering collaboration, development, and innovation. By leveraging artificial intelligence technology, organisations can enhance operational efficiency and provide substantial value-added benefits for their company operations.

CONCLUSION

In the rapidly advancing age of technology and digitalization, ChatGPT has demonstrated its efficacy as a tool for enhancing the efficacy of business communication within the field of management science. ChatGPT offers enterprises a diverse range of advantages across multiple operational domains, encompassing enhanced communication responsiveness and availability, data analysis capabilities, strategic assistance, as well as facilitation of cooperation, development, and innovation. Therefore, this study arrived at the following suggestions:

- a) Integrate ChatGPT with Business Communication Systems: Organisations should integrate ChatGPT into their business communication systems, such as email, instant messaging systems, or chatbots, to provide quick and relevant responses to queries and requests.
- b) Strengthen the Use of ChatGPT in Decision Making: Managers and stakeholders should increase the use of ChatGPT in analysing data and providing insights for better and timely decision-making.
- c) Use ChatGPT for Employee Development: ChatGPT can be used as a personal assistant to support employee training and development, facilitating the acquisition of new knowledge and skills to improve labour productivity and qualifications.





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d) Utilise ChatGPT for Customer Service: Integration of ChatGPT in customer service will improve responsiveness and provide a better customer experience, increasing customer satisfaction and retention.

- e) Utilise ChatGPT for Research and Innovation: Companies can use ChatGPT to support research and development of new products or services, accelerate the research process, and identify innovation opportunities faster.
- f) Conduct Training and Supervision: In using ChatGPT, it is important to provide proper training and supervision for the staff responsible for its use. This will ensure that ChatGPT is used efficiently and in line with business objectives.
- g) Keep the Focus on the Human Aspect: While ChatGPT helps improve communication efficiency, it is important to still value human interaction. The expansion of this technology should not neglect the importance of human relationships in a business environment.

By implementing the above suggestions, organisations can maximise the benefits provided by ChatGPT in improving the efficiency of business communication in management science. In addition, companies should also keep abreast of developments in artificial intelligence technology and continue to optimise the use of ChatGPT to maintain competitiveness and adaptability in the ever-changing business world.

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