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The New Hospitality Paradigm: Leveraging Absorptive Capacity for AI and 5G-Enabled Innovation

Irawan R.D Budianto1, Supina Supina2, Fajri Fajri3, Hadita Hadita4
[1]Universitas Mitra Bangsa, Indonesia, Irawanrenataduta@gmail.com
[2]Universitas Bunda Mulia, Indonesia, supina@bundamulia.ac.id
[3]Bank Rakyat Indonesia, Indonesia, Fajri1985pm@gmail.com
[4]Universitas Bhayangkara Jakarta Raya, Indonesia, hadita@dsn.ubharajaya.ac.id

Corresponding Author: Irawanrenataduta@gmail.com[1]

Abstract: The hospitality industry is undergoing a significant transformation due to the integration of artificial intelligence (AI) and 5G technology. This new paradigm is characterized by innovative services and experiences that are made possible by these technological advancements. AI is being integrated into hospitality services, revolutionizing the industry, particularly by enhancing the efficiency and effectiveness of guest interactions and back-end operations. The advent of 5G technology is poised to usher in a new epoch for the hospitality industry, not just as a technological upgrade, but as a transformative force reshaping guest experiences and operational efficiencies. The integration of 5G technology in the hospitality industry can enhance the guest experience by providing personalized services and smart room controls. However, ensuring strong and uninterrupted mid-band coverage is a significant barrier to implementing 5G in hospitality. Successful AI applications in hospitality include personalized recommendations and chatbots that automate routine tasks. The absorptive capacity of the hospitality industry is critical for leveraging external knowledge for competitive advantage. Investing in research and development activities is essential for innovation and staying competitive in this rapidly evolving industry.

Keywords: Hospitality Industry, Absorptive Capacity, Artificial Intelligence, Innovation, 5G

INTRODUCTION

The hospitality industry is experiencing a paradigm shift due to the integration of artificial intelligence (AI) and 5G technology. This new hospitality paradigm is characterized by innovative services and experiences that are made possible by these technological advancements. In this research paper, we seek to explore the impact of AI and 5G technology on the hospitality industry and examine how organizations can leverage their absorptive capacity to maximize the benefits of these technologies. We will begin by defining the new hospitality paradigm and examining how technology has influenced this industry. We will then delve into the impact of AI on hospitality services, including its benefits and challenges.

Next, we will explore the potential of 5G technology in hospitality, identifying ways in which it can enhance guest experiences and the potential obstacles to its implementation. We will also discuss absorptive capacity as a strategic asset for organizations and analyze how it can be increased to better incorporate AI and 5G technology. Finally, we will present case studies of successful AI and 5G innovations in hospitality, highlighting best practices and lessons learned. By the end of this paper, readers will have a comprehensive understanding of the new hospitality paradigm and the opportunities and challenges presented by AI and 5G technology in the industry.

In this rapidly evolving era, the hospitality industry is undergoing a significant transformation, moving away from the one-size-fits-all model of the past to a more personalized approach that caters to individual preferences and desires (Oshins, 2017). This new hospitality paradigm is characterized by its embrace of personalization, allowing for services that are tailored to the unique needs and expectations of each guest, thereby elevating the overall customer experience (Oshins, 2017). A key element in this shift is the role of technology, which serves as a crucial tool in delivering customized experiences. Sophisticated data analytics, for instance, can track preferences and anticipate needs, ensuring that a guest's stay is as comfortable and memorable as possible (Oshins, 2017). Furthermore, within this new paradigm, staff members are encouraged to cultivate a growth mindset, which emphasizes continuous learning and innovation, enabling them to provide exceptional service that reflects local culture and pride (Rockwood, 2020). This mindset shift is essential for creating genuine, unforgettable experiences that resonate with guests on an emotional level, ultimately defining the new hospitality paradigm (Rockwood, 2020).

METHOD

This research uses descriptive qualitative approach. This method was chosen because it allows researchers to investigate and understand phenomena related to the latest hospitality paradigm thoroughly. paradigm thoroughly. Descriptive qualitative data collection and analysis data collection and analysis allows researchers to tailor their approach to the needs of the research needs and the characteristics of the subject under study.

The data used in this study came from previous research on the topic of hospitality and AI uptake. AI absorption. The researcher will conduct an analysis of the existing literature to identify the uptake capacity of AI and 5G-enabled innovation in the new hospitality paradigm. in the new hospitality paradigm. By using previous research, researchers can develop stronger, evidence-based arguments and contribute to a broader understanding of the new hospitality paradigm. contribute to a broader understanding of the new hospitality paradigm.

This research utilized data from a range of leading academic journals, including Thomson Reuters Journal, Springer, Taylor & Francis, Scopus, Emerald, Sage, WoS, Sinta Journal, DOAJ, and EBSCO, as well as platforms such as Publish or Perish and Google Scholar. By using these sources, researchers can ensure that the data they collect is valid and the that the data they collect is valid and accountable. The use of multiple sources also allowed the researcher to gain a more comprehensive understanding of the new hospitality paradigm, AI uptake capacity and AI uptake capacity, and 5G-enabled innovation from multiple perspectives.

RESULTS AND DISCUSSION

Role of Innovation in the New Hospitality Paradigm

In this evolving landscape of personalized hospitality, technology has proven to be a catalyst for innovation and improved service delivery. By integrating advanced systems, hoteliers are able to tailor guest experiences with greater precision, ensuring each visitor feels uniquely valued. Digital tools facilitate a seamless, frictionless service environment, allowing guests to navigate their stay with ease and comfort (Worrall, 2023). For instance,

in-room chatbots provide an immediate response to common inquiries, and online ordering systems cater to individual preferences, thus enhancing the overall guest journey (Worrall, 2023). Moreover, these technologies have augmented the capabilities of the hotel staff by managing repetitive tasks, thereby freeing employees to focus on more complex and guest-centric activities (Worrall, 2023). This symbiosis between technology and human talent allows for a more intuitive and responsive guest experience (Worrall, 2023). As such, technology in the hospitality industry is not merely a set of tools but a strategic partner that both enhances guest satisfaction and empowers staff to deliver exceptional service (Worrall, 2023).

In the rapidly evolving landscape of the hospitality industry, innovation serves as the bedrock of the new paradigm, fundamentally altering the market and creating novel opportunities for growth. This paradigm shift, fueled by disruptive innovations like the internet, mobile technology, and big data analytics, underscores the need for companies to embrace change or risk obsolescence (Oshins, 2017). The cautionary tales of Borders Books, Blockbuster, and Kodak, each a titan in its respective domain, serve as stark reminders of the perilous consequences of failing to adapt to the tides of innovation; their bankruptcies are a clarion call for the hospitality sector to pivot swiftly and decisively (Oshins, 2017). Conversely, organizations that have successfully navigated such transformative periods—Netflix being a prime example—demonstrate the viability and necessity of revamping business models in response to technological advancements (Oshins, 2017). This shift is not merely a superficial change but represents a fundamental reimagining of how hospitality entities operate, emphasizing the creation of new realities that prioritize agility, responsiveness, and the ability to leverage technology to enhance the guest experience, as seen with the integration of personalized services and the strategic use of post-departure feedback (Oshins, 2017). These examples illustrate that innovation is not just a buzzword but an imperative strategic tool within the hospitality industry's new paradigm.

The Impact of AI on Hospitality Industry

The integration of AI into hospitality services is revolutionizing the industry, particularly by enhancing the efficiency and effectiveness of guest interactions and back-end operations. At the forefront of this transformation are AI-driven chatbots and virtual assistants, which provide immediate, round-the-clock customer service, addressing inquiries and resolving issues with an unprecedented level of convenience for guests (Pressreader, 2022). These innovations are part of a broader strategy to personalize the guest experience; for instance, AI algorithms are employed to analyze previous interactions and preferences, enabling the delivery of tailor-made recommendations and services (Pressreader, 2022). Moreover, AI-powered revenue management systems are adept at optimizing pricing strategies, ensuring that hotels can adjust rates in real-time based on demand, thereby maximizing profitability while maintaining competitive pricing (SDH Global, 2023). The use of AI thus not only enhances the customer experience but also streamlines operational efficiency, ensuring that hotels can cater to the nuanced needs of their guests while also attending to the business's bottom line (SDH Global, 2023).

In the burgeoning era of personalized service, AI's role in the hospitality industry is transformative, offering an unprecedented level of customization and convenience. AI-driven guest profiling and recommendation systems are at the forefront of this revolution, enabling hotels and resorts to tailor their services, amenities, and offers to precisely match each guest's unique preferences, thus providing a highly personalized experience (Lucas, 2023). The deployment of chatbots and virtual assistants, for example, is a testament to the industry's commitment to instant assistance, where guests can receive answers to their queries and personalized recommendations at any hour, significantly enhancing the overall customer

service (Lucas, 2023). Furthermore, this adoption of AI technology is not merely about immediate satisfaction; it creates memorable and personalized experiences that foster deeper guest loyalty and satisfaction, which are critical factors for business success in this competitive sector (Lucas, 2023). AI's transformative power, therefore, not only elevates individual guest experiences but also strengthens the hospitality industry as a whole, by setting new standards in customer service and guest engagement (Lucas, 2023, Pressreader, 2022).

Artificial intelligence has not only augmented the ability of hotels to tailor the guest journey but has also introduced substantial changes to traditional hospitality models. A prime example of this is the enhancement of guest experience management through AI applications (Berman, 2023). No longer confined to human-led interactions, guest experiences are now shaped by smart systems capable of learning preferences and behaviors, ensuring that each stay is more personalized and satisfying than the last (ACW Consultancy Group Ltd, 2023). Furthermore, the integration of AI into hospitality operations has streamlined mundane tasks such as booking and check-ins, which are now often automated, freeing staff to focus on more complex customer service needs (Hollander, 2023). This operational transformation has led to a significant shift in how hotels allocate their workforce, with AI taking on a central role in managing day-to-day activities, thus allowing human resources to be redeployed to roles that benefit from a personal touch (Bisoi, et al., 2020). The advancements in AI not only enhance efficiency but also provide valuable insights into market trends, enabling strategic planning that is more aligned with consumer desires and industry shifts (Damaren, 2023). The synergy of AI with traditional hospitality practices is creating a new paradigm where technology and human expertise combine to elevate the guest experience to unprecedented levels.

Exploring 5G Technology in Hospitality

The advent of 5G technology is poised to usher in a new epoch for the hospitality industry, not just as a technological upgrade, but as a transformative force reshaping guest experiences and operational efficiencies. At the heart of this transformation is the ability of 5G to streamline hotel operations by facilitating faster and more reliable communication between staff and guests (Goswami,2023, Phonesuite, 2024) This leap in connectivity enables hotels to handle guest requests with unprecedented speed and efficiency, ensuring that every aspect of the guest experience, from check-in to dining, is seamless and satisfactory (Phonesuite, 2024). Furthermore, the enhanced network speeds and reduced latency offered by 5G can enrich the guest experience by providing more immersive entertainment options and cutting-edge services, such as virtual concierge services (Goswami,2023, Phonesuite, 2024). These advancements underline the importance of embracing 5G for hotels to maintain relevance and competitiveness in an industry that is increasingly dependent on technological prowess to satisfy the sophisticated demands of contemporary travelers (Retrod, 2024).

In this evolving landscape of hospitality, the integration of 5G technology emerges as a game-changer, particularly in personalizing guest experiences. With its ultra-fast connectivity and low latency, 5G can provide the infrastructure necessary to deliver bespoke services at unprecedented speeds (Naumann, 2024). For instance, hotel operators leveraging 5G can utilize data analytics to gain insights into individual guest preferences, which can then be used to tailor messages and recommendations, ensuring each guest feels uniquely valued (Naumann, 2024). . Moreover, the advanced capabilities of 5G enable the implementation of smart room controls, allowing guests to customize their in-room environment to their liking, be it adjusting lighting, temperature, or entertainment systems, all with the ease of a voice-activated assistant or a simple touch on their personal devices (Phonesuite, 2024). This shift towards a more personalized service model, supported by the

technological prowess of 5G, not only enhances the guest experience but also aligns hotels with the modern traveler's expectations of convenience and personalization, setting a new benchmark in customer satisfaction within the hospitality sector (Goswami,2023, Phonesuite, 2024).

Potential Obstacles in Implementing 5G

While the integration of technology into the hospitality sector has been largely beneficial, paving the way for personalized guest experiences and efficient service delivery, the transition to 5G presents its own set of challenges. One significant barrier is ensuring strong and uninterrupted mid-band coverage, which is crucial for the seamless operation of hospitality services (Escobar, 2022). The very nature of 5G frequencies, which are designed to prioritize speed, means that they inherently sacrifice distance and penetrative strength, leading to potential issues with uneven and spotty coverage within hotel infrastructures (Escobar, 2022) . This can be particularly problematic in hospitality settings where guests expect consistent and reliable internet access as part of their experience (Widjanarko et al., 2023). Moreover, hotels often feature complex layouts with numerous obstructions, further complicating the task of achieving comprehensive coverage. Despite these obstacles, the pursuit of overcoming them is well-justified; successfully implementing 5G can endow a hotel with a significant competitive edge by enhancing both operational efficiencies and the overall guest experience (Escobar, 2022) . Therefore, while the path to 5G adoption in hospitality is fraught with technical hurdles, the potential rewards for guests and hoteliers alike make it an indispensable endeavor.

Absorptive Capacity as a Strategic Asset

Absorptive capacity in the hospitality industry serves as a critical determinant of a firm's ability to leverage external knowledge for competitive advantage. This capacity enables firms to navigate the complex landscape of rapidly evolving customer preferences and technological advancements (Hadita & Adiguna, 2019). Specifically, absorptive capacity is the firm's ability to recognize the value of new information, assimilate it effectively, and apply it to enhance business operations (Budianto, et al., 2021). In the context of hospitality, this might involve recognizing emerging trends in customer service, assimilating innovative practices in hotel management, and applying cutting-edge technologies to improve guest experiences. Such capabilities are built upon a foundation of organizational routines and processes that facilitate the acquisition, assimilation, transformation, and exploitation of knowledge, thereby empowering firms to innovate and adapt in a dynamic market (Lis & Sudolska, 2023). The strategic ramifications of absorptive capacity are profound, as it influences the firm's investment decisions in research and development (R&D) activities. A strong absorptive capacity allows hospitality firms to not only absorb R&D spillovers from other entities but also to maximize the returns on their own R&D investments, thereby fostering an environment conducive to innovation and strategic flexibility (Grunfeld, 2003, Pu, & Liu, 2023). This underscores the importance of developing and nurturing absorptive capacity within hospitality organizations to maintain a competitive edge in an industry characterized by constant change and fierce competition (Hadita & Navanti, 2024).

To adapt to the emergent paradigm in the hospitality industry, organizations must bolster their absorptive capacity, which is instrumental in fostering an environment ripe for innovation and personalized service offerings. Recognizing the value of new external knowledge plays a key role in this process; by staying attuned to emerging trends in customer preferences, hotels can assimilate this information to tailor their services more effectively (Budianto, et al., 2021). . Investing in research and development activities allows these organizations to better understand the nuances of individualized service, enhancing their

ability to innovate within their service delivery models (Budianto, et al., 2021). . Furthermore, by developing organizational routines that prioritize knowledge identification and utilization, hotels can establish systems that ensure continuous learning and adaptation, enabling them to align their services with the personalized approach demanded by the new hospitality paradigm (Sancho-Zamora, et al., 2021). This strategic focus on nurturing absorptive capacity will, thus, equip organizations to not only grasp the shifts in industry standards but also to lead the way in delivering customized experiences that resonate with the evolving expectations of their clientele.

Absorptive Capacity Leveraging AI and 5G

In the context of the hospitality industry, the ability of hotels to leverage emerging technologies like AI and 5G is fundamentally intertwined with their absorptive capacity. This capacity is a firm's ability to not only recognize the value of new information but also to assimilate and apply it effectively within its business operations (Budianto, et al., 2021). . For hoteliers who have already started using technology to tailor guest experiences and gather feedback, the next step is to utilize absorptive capacity to integrate more complex technologies. With AI and 5G, the potential for enhanced guest services is significant—from personalized room settings to seamless online interactions. However, to capitalize on this potential, hotels must have in place organizational routines that facilitate the acquisition, assimilation, transformation, and exploitation of knowledge (Lis & Sudolska, 2023). This includes fostering an environment conducive to learning and innovation, where the insights gathered from post-departure feedback are not only collected but also analyzed and acted upon using advanced data analytics powered by AI. The dynamic capabilities underpinning absorptive capacity, such as the ability to pivot strategies in response to new technological opportunities, are thus critical for hotels aiming to stay at the forefront of the hospitality industry (Pu, & Liu, 2023) . By building these capabilities, hotels can ensure that they not only keep pace with but also fully exploit the advancements in AI and 5G to enhance the guest experience.

Case Studies of AI and 5G Innovations in Hospitality

In the hospitality industry, AI has emerged as a transformative force, significantly enhancing both operational efficiency and the quality of guest experiences. Hotels and resorts are leveraging AI to provide personalized services that cater to the unique preferences of each guest, a move that has proven to be highly successful (SDH Global, 2023). By analyzing customer data and previous interactions, AI systems can offer tailored recommendations, such as suggesting a dining experience or a spa package that aligns with the guest's past preferences (SDH Global, 2023). This level of customization not only delights customers but also encourages repeat business, cementing the role of AI in driving customer loyalty. Furthermore, AI-powered chatbots are revolutionizing the way guests interact with hotel services (SDH Global, 2023).. These chatbots are capable of handling a range of requests, from answering common queries to facilitating reservations, all in a seamless and efficient manner. By automating these routine tasks, hotels can allocate human resources to more complex guest needs, thereby optimizing the distribution of labor (SDH Global, 2023).. This strategic application of AI in automating processes and personalizing guest experiences underscores the technology's pivotal contribution to the hospitality sector, suggesting that AI's role will continue to expand as more innovative applications are developed (SDH Global, 2023, Hughes Sistique, 2023).

In the wake of the new paradigm emphasizing personalization and customization in the hospitality industry, 5G technology emerges as a pivotal innovation in implementing these concepts. The seamless integration of 5G within hospitality settings has been

transformative, particularly in enhancing the guest experience—a core focus in the industry's shift towards individualized service. With the advent of 5G technology, guests no longer face network delays or the frustration of dropped calls, as 5G eliminates these issues, offering a robust and reliable connection throughout their stay (Mykrantz, 2021). This improvement in connectivity is not just a matter of convenience; it directly contributes to a more personalized guest experience, as individuals can effortlessly use their devices for various purposes, ranging from business to entertainment (Mykrantz, 2021). The capability of 5G to provide excellent cell signal and hotspot abilities ensures that guests can maintain uninterrupted communication, whether they're video conferencing for work or streaming their favorite shows (Mykrantz, 2021). Additionally, hotels have recognized the typical problems associated with virtual meetings—such as freezes and delays—and have implemented 5G technology to address these issues, ensuring that such inconveniences are a thing of the past (Mykrantz, 2021). This technological upgrade not only meets the current need for speed and performance but also aligns with the industry's overarching goal to offer a service that is as individualized and error-free as possible (Mykrantz, 2021).

CONCLUSION

In the swiftly evolving landscape of the hospitality industry, artificial intelligence stands out as a transformative force, addressing the challenges of meeting the high expectations of modern-day guests. With guests demanding more personalized experiences, seamless interactions, and efficient services, AI has emerged as a critical tool for innovation (SDH Global, 2023).. The integration of AI into hotel operations can significantly enhance guest service by automating routine tasks, thus freeing up staff to focus on more complex and personalized guest interactions (SDH Global, 2023).. For instance, robotics and automation can handle check-ins and check-outs, room cleaning, and even delivering items to guest rooms, which not only streamlines hotel operations but also provides a novel experience for guests (SDH Global, 2023).,. By implementing these AI-driven solutions, hotels can create unique and memorable experiences, while also reducing operational costs and improving overall efficiency (SDH Global, 2023).. As the hospitality industry continues to evolve, leveraging the latest advancements in AI and automation becomes imperative for staying competitive and exceeding guest expectations (Prometteur solutions, 2023).

The hospitality industry is undergoing a significant transformation, moving away from the one-size-fits-all model of the past to a more personalized approach that caters to individual preferences and desires. This new hospitality paradigm is characterized by its embrace of personalization, allowing for services that are tailored to the unique needs and expectations of each guest, thereby elevating the overall customer experience. The integration of AI and 5G technologies has been a game-changer in this evolving landscape of hospitality, offering unprecedented levels of customization and convenience. The adoption of these technologies has streamlined mundane tasks, such as booking and check-ins, freeing staff to focus on more complex customer service needs. Additionally, AI algorithms are employed to analyze previous interactions and preferences, enabling the delivery of tailor-made recommendations and services. The potential for enhanced guest services is significant, from personalized room settings to seamless online interactions. The seamless integration of 5G within hospitality settings has been transformative, particularly in enhancing the guest experience, a core focus in the industry's shift towards individualized service. Furthermore, the adoption of AI technology is not merely about immediate satisfaction; it creates memorable and personalized experiences that foster deeper guest loyalty and satisfaction, critical factors for business success in this competitive sector. The advancements in AI not only enhance efficiency but also provide valuable insights into market trends, enabling strategic planning that is more aligned with consumer desires and industry shifts. The

discussion of this research paper demonstrates that the integration of AI and 5G technologies into hospitality services is revolutionizing the industry, particularly by enhancing the efficiency and effectiveness of guest interactions and back-end operations. The absorptive capacity in the hospitality industry serves as a critical determinant of a firm's ability to leverage external knowledge for competitive advantage. As such, investing in research and development activities allows these organizations to better understand the nuances of individualized service, enhancing their ability to innovate within their service delivery models. The hospitality industry must continue to leverage the latest advancements in AI and automation to stay competitive and exceed guest expectations.

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