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ENHANCING CUSTOMER DELIGHT THROUGH IOT-DRIVEN INNOVATIONS: A STUDY OF SMART HOSPITALITY PRACTICES IN THE HOTEL INDUSTRY

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Abstract:
With the fast-changing face of the hospitality sector, the Internet of Things (IoT) has appeared as a disruptive force, remaking service provisioning and guest experience. This research explores how innovations driven by IoT are maximizing delight for customers by embracing intelligent hospitality practices in contemporary hotels. The study looks at prominent IoT uses like smart automation of rooms, voice-based services, energy management based on sensors, predictive maintenance, and instant guest feedback mechanisms. Using a mixed-methods approach, the research gathers information from hotel guests and management in selected city hotels that are renowned for adopting smart technologies. The results point out that IoT solutions greatly enhance comfort, personalization, responsiveness, and efficiency, thus enhancing the overall guest experience. Customers are more satisfied when they engage with intuitive technologies that sense needs and offer seamless service. In addition, the research observes that IoT not only improves the quality of services but also promotes sustainable behavior by minimizing energy and resource usage. Despite these benefits, issues such as data privacy, high upfront costs, and technical integration are still major issues. This study adds to the expanding smart hospitality literature base by offering practicable recommendations to hoteliers willing to adopt IoT technologies to realize customer delight, operational excellence, and sustainable competitive advantage.

Keywords: *Internet of Things (IoT), Smart Hospitality, Customer Delight, Hotel Industry, Service Personalization, Guest Experience, Technological Innovation*

1. Introduction:

The hospitality sector has ever been customer-focused, with the main emphasis being on providing outstanding service experiences that bring about guest satisfaction and loyalty. Customer delight, or exceeding customer satisfaction to surprise and delight, has in recent years become a core measure of hotel success. In today's competitive international hotel market, with products usually being standardized, customer delight has emerged as a key differentiator strategy. With evolving customer expectations, especially among technology-savvy travelers, conventional service models are found to be insufficient in fulfilling the needs of personalization, speed, and convenience. Technological innovations have played a major role in the evolution of service delivery in the hospitality industry. Of these, the Internet of Things (IoT) is a revolutionary technology that can redefine guest experiences through smart

automation, real-time data analysis, and seamless service integration. IoT allows networked smart devices to talk to each other, gather, and share information, making it possible to have greater control over hotel operations and customized guest services. Smart room temperature management, keyless entry, voice-activated assistants, and automated housekeeping reminders are examples. These are not only advances in operational efficiency but also create immersive and responsive spaces that engage guests (Anwar et al., 2024).

IoT hospitality not only enhances service delivery but also adds new layers to customer interaction. Using guest data, hotels can anticipate needs, customize room conditions, and provide customized services, creating memorable experiences. IoT also assists in green initiatives by optimizing the use of energy and resources, which is also in line with the increasing demand for sustainability in hospitality. This integration of technology has the potential to convert conventional hotel operations into interactive and dynamic systems that increase guest satisfaction and sustainability. The use of IoT in the hospitality sector has challenges. Exorbitant initial investment charges, technical expertise requirements, complexity of integrating the various components, and data privacy issues are important challenges, especially for mid-size and small-scale hotels. A strong digital infrastructure and staff training are also urgently required for the efficient working of intelligent systems. In addition, comfort and trust guests feel in applying these technologies also make a crucial contribution to the efficiency of such innovations. Solutions to these concerns must be implemented for the optimum exploitation of IoT by the hospitality sector (Marques & Marques, 2023).

The current research has been designed to understand how innovations in IoT deliver greater customer delight to the hospitality sector by evaluating their role in raising guest satisfaction, personalizing services, and operational effectiveness. A mixed-methods approach was taken, combining both quantitative and qualitative data through guest surveys and interviews with hotel staff and professionals working in tech-enabled hotel establishments. The results are predicted to provide intelligence into the effectiveness of smart hospitality practices in action, measure their impact on delighting customers, and determine optimal practices and bounds of existing IoT integration. Hospitality remains dynamic driven by technological innovation and shifting customers' expectations, IoT becomes an effective driver for customer-focused innovation. Through the exploration of how smart technologies impact guest experience, this research adds to the overall discussion on digital transformation within hospitality. Not only does the research identify the potential that IoT brings, but it also offers suggestions for hoteliers and stakeholders on how to strategically deploy smart solutions that facilitate customer delight and sustainable development (Wynn & Lam, 2023).

2. Background of Study:

The hospitality sector has seen a paradigm shift in the last decade, moving from conventional service models to experience-based frameworks. With globalization, heightened competition, and changing customer expectations, hotels are constantly challenged to innovate and provide value beyond the mere provision of accommodation and food. The contemporary guest demands experiences that are seamless, personalized, and technologically augmented. Here, customer delight, meaning the emotional reaction evoked when there is exceeding expectation in the delivery of services, has become the central aim for hospitality service providers seeking to develop close relationships with customers and induce brand loyalty (Shumakova, 2021).

Technology developments have become the key drivers of richer guest experiences, and of them, the Internet of Things (IoT) has proven to be a game-changing phenomenon. IoT is a network of connected physical devices with sensors, software, and other technologies installed in them, which provide and exchange data in real time. In the hospitality industry, IoT enables the development of intelligent hotel spaces where guest preferences can be discovered, monitored, and addressed automatically. From intelligent thermostats and lighting to voice-enabled devices and predictive maintenance systems, IoT is transforming the way services are delivered and experienced, enabling hotels to move beyond customer satisfaction and strive for customer delight.

The rising uptake of IoT in hospitality is also motivated by the growing digital literacy and expectations of the guests, especially from the younger demographics like Millennials and Gen Z. These customer groups are more likely to appreciate and require technologically sophisticated services that are intuitive and personalised. Additionally, IoT-based systems improve operational efficiency, eliminate human errors, and facilitate sustainable practices, leading to a favourable brand image. Hotels that use IoT can gain a competitive advantage by providing distinct, interactive, and personalized service experiences that create emotional bonds with visitors. Nevertheless, the use of IoT is not without its complications. High implementation costs, continuous upgrades, cybersecurity risks, and the absence of standardization on devices and platforms can limit its extensive usage. Also, change management and staff training are critical to guarantee that the technological shift does not undermine service quality. Small and medium-sized hotels, especially, might find it difficult to match the bigger chains that have the capacity to install sophisticated smart systems. Thus, knowing both the possibilities and the limitations of IoT in driving customer delight is crucial for sustainable industry change (Chen et al., 2023).

Indian hospitality industry, being one of rapid growth and heterogeneity, provides a rich source for analyzing the effects of IoT-based innovations. Indian cities and high-end chains of hotels have already started to adopt smart technology to enhance customers' experiences, but empirical studies on their role in delivering customer delight are in short supply. Most of the existing research has focused on operational efficiency or technology adoption in isolation, rather than exploring the holistic effect of IoT on emotional and experiential aspects of guest satisfaction. This leaves a gap for research, which is aimed to be addressed through this study. This research is therefore situated at the nexus of hospitality management, technology, and consumer psychology. It seeks to investigate how IoT-based innovations affect customer delight in the Indian hotel sector by understanding the interaction amongst smart service delivery, guest interaction, and emotional contentment. Doing so extends existing research on smart hospitality practices as well as offering actionable findings for hoteliers, policymakers, and technology vendors looking to advance customer-centricity through digitalization.

3. Scope and Significance of Study:

The purview of this study involves the investigation of IoT-based innovations and their direct and indirect effects on customer delight in the hotel sector. It is centered around intelligent hospitality practices adopted in urban as well as semi-urban hotels, mainly in the Indian context. The research encompasses luxury and mid-range hotels that have implemented or are implementing IoT-based technologies like smart room automation, AI-powered customer service, digital concierge systems, and predictive maintenance tools. Through the analysis of

both hotel management and guest perspectives, the research seeks to provide a comprehensive understanding of how technological integration influences service quality and customer satisfaction. Geographically, the study is restricted to metropolitan and tier-2 cities in India where smart hospitality technologies are rising as a point of competitive difference. The investigation identifies views of selected hotels across locations where digital infrastructure is high and customer interaction with technology is relatively high as well. Thus, the study ensures that evaluation of IoT uptake is based on practical use versus hypothetical potential. The time frame considers advancements and implementations in the past five years, which embodies the present industry trends and innovations following the COVID-19 digital acceleration.

The relevance of this research is its timely investigation into a fairly under-studied domain in the hospitality industry—customer delight via IoT innovation. While a number of studies tackle customer satisfaction and operational effectiveness, there are hardly any that delve into the experiential and emotional dimensions of service improvement influenced by smart technologies. This study bridges this gap by placing focus on customer delight, that is, something greater than satisfaction; it is the astonishment and delight that builds strong customer loyalty and long-term relationship. At a time when customer experience is at the heart of brand reputation, such information is priceless. For practitioners in the industry, this research provides actionable knowledge concerning the types of IoT technologies with the most profound impact on guest experiences. It offers evidence-based guidelines to hotel managers and technology partners on how to integrate smart solutions strategically without undermining human touchpoints. It also deals with issues like data privacy, cost of implementation, and customer adaptability and assists hoteliers in making smart decisions regarding technological investment and deployment strategies.

From a scholarship point of view, the study contributes to the general digital transformation, service innovation, and consumer behavior discourse in the hospitality literature. The study provides richness to existing literature by connecting future technologies with psychological outcomes of delight, engagement, and emotional satisfaction. The study also establishes new fronts for cross-disciplinary research on hospitality management, information systems, and customer relationship management. Researchers can continue to extend this research and examine longitudinal effects or cross-country and market segment comparative results. In general, the research is important in informing the future of smart hospitality in such a manner that innovates at the customer level. By understanding the potential of IoT to not only optimize hotel operations but also elevate the guest experience to a delightful level, stakeholders in the hospitality industry can better align technological progress with human-centric service values. This alignment is key to maintaining relevance, competitiveness, and excellence in a digitally evolving global market.

4. Objectives of Study:

- To examine the adoption and application of IoT technologies in the hotel industry
- To assess the impact of IoT-driven innovations on customer delight, with a focus on emotional engagement, surprise elements, and perceived value-added services from the guest's perspective

- To analyze customer preferences and expectations related to smart hospitality services, particularly among different demographic segments such as Millennials, Gen Z, and business travelers
- To evaluate the operational benefits of IoT in terms of service efficiency, personalization, and sustainability, and how these translate into improved guest satisfaction and loyalty
- To identify the challenges and limitations faced by hotels in implementing IoT-based smart services, including cost constraints, data privacy concerns, and technological adaptability
- To provide strategic recommendations for hotel managers and policymakers on optimizing IoT implementation to maximize customer delight and build a competitive edge in the digital hospitality era

5. Review of Literature:

The notion of customer delight has developed immensely in service management literature, differing from customer satisfaction in that it aims to capture emotional involvement and serendipitous positive experiences. Customer delight, as described by Kumar and Mittal (2020), happens when service delivery surpasses expectations, leading to emotional arousal like joy or amazement. Within the hospitality industry, this emotional component is pivotal in making lasting memories and building loyalty. Oliver, Rust, and Varki (1997) highlighted that pleasure generates stronger behavioral intentions than satisfaction, hence a key measure in competitive sectors such as hospitality.

The development of the Internet of Things (IoT) has created new opportunities for service delivery in the hospitality sector to be reengineered. IoT allows smart devices, sensors, and software systems to integrate with each other in order to provide intelligent environments that adjust based on the users' preferences (Atzori, Iera, & Morabito, 2010). IoT solutions such as climate control, facial recognition check-in, smart lighting, and mobile keys in hotels are fast being implemented (Sharma & Goyal, 2021). These technologies not only enhance operational effectiveness but also customer experience through delivering real-time, contextual services. Smart hospitality practices are the integration of IoT and hospitality operations to develop more personalized, responsive, and efficient guest services.

Buhalis and Leung (2018) studies contend that smart hotels utilize digital solutions to redefine conventional touchpoints into interactive, automated experiences. This change enhances visitors' perceived convenience and control, which are closely associated with greater satisfaction and delight. Furthermore, IoT improves back-end operations such as predictive maintenance and resource allocation, leading to unbroken and hassle-free service quality (Li, Xu, & Zhao, 2019).

The function of personalization and automation in customer delight is at the core of smart hospitality. Parasuraman et al. (2005) observe that customers appreciate experiences that are aligned with their personal expectations and preferences. IoT allows hotels to collect real-time guest information and leverage analytics to personalize services like room conditions, entertainment, and food choices. Based on a study by Lee, Choi, and Kwak (2020), the users of IoT rooms report greater satisfaction as a result of the perceived uniqueness and ability to control their environment. Personalization showcased also boosts emotional connection and

loyalty among guests. While it has advantages, however, IoT in hospitality is showcased to encounter a more substantial number of challenges. Data privacy and security are a major issue, considering that smart solutions are likely to involve gathering and storing personal guest data.

As Alrawadieh, Karayilan, and Cetin (2020) noted, insufficient clear regulations and standard procedures may put hotels at risk of cybersecurity threats. Furthermore, small and medium-sized hotels are usually constrained by the excessive costs of deployment and the difficulty of integrating IoT systems with old infrastructure (Gretzel, Sigala, Xiang, & Koo, 2015). Staff resistance to emerging technologies and absence of technical expertise also present huge obstacles to the effective deployment of IoT.

In the Indian context, the integration of smart technologies in hospitality is still evolving, though it is gathering pace in luxury and urban hotel chains. As per the Federation of Hotel & Restaurant Associations of India (FHRAI, 2021), digital innovation is becoming a differentiator in guest service. Empirical studies specifically on how IoT adds to customer delight—particularly in terms of emotional and psychological aspects—are still limited. This study examines the relationship between smart service delivery and guest experiences in Indian hotels and is aimed at filling that gap by contributing to scholarly literature as well as industry expertise.

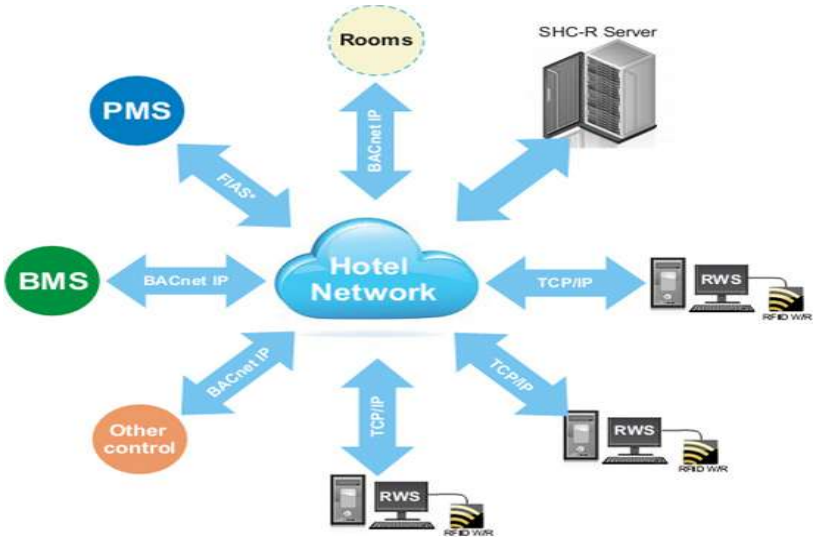
6. Discussion and Analysis:

The research finds a significant relationship between IoT technologies' integration and increased customer delight levels in intelligent hotel settings. The visitors who experienced IoT-based services—e.g., smart lighting, voice assistants, and mobile check-in—registered increased satisfaction and emotional engagement. These technologies created surprise, convenience, and control feelings that conform to the psychological aspects of customer delight. The uniqueness of these experiences, along with simplicity, had a considerable impact on the emotional reactions of guests, going beyond their preconceived expectations. Personalization is one of the key themes that have come out of the data, and it was central to enhancing guest experiences. Automated room ambiance adjustments according to past preferences, customized entertainment choices, and AI-based concierge services were some of the features enjoyed by guests. This degree of personalization not only increased comfort but also created a feeling of identification and value, resulting in an emotional attachment to the hotel brand. The research is in support of Parasuraman et al.'s (2005) perspective that personalization is a key driver of customer delight in service contexts.

With regards to operational efficiency, IoT deployment resulted in less service delay, enhanced housekeeping coordination, and predictive maintenance intervention. Hotel operators reported increased productivity among staff owing to automated notifications, real-time monitoring, and energy management solutions. These efficiencies enabled service staff to engage more with guests and less with routine work, hence enhancing service quality. The report suggests that IoT not only improves front-end experience but also reinforces back-end operations, leading to frictionless service delivery. Another significant takeaway from the research has to do with sustainability and eco-friendliness. Most IoT-powered hotels employed smart energy management systems that changed lights and heating automatically when rooms were vacant. Guests, especially across younger generations, praised the hotel for its initiatives towards sustainability. This awareness conferred value upon their overall experience and impacted their

intention to return or refer the hotel. Therefore, IoT-led sustainability practices not only contribute to operations but also form good guest attitudes and emotional reactions.

Figure 1: Enhancing Guest Experience through Smart System



(Source: Euroicc.com)

In spite of these advantages, the research revealed a number of implementation issues. High initial investment requirements, complicated integration processes, and restricted technical knowledge were named by hoteliers as chief barriers. Furthermore, data privacy and cybersecurity concerns were also a major inhibiting factor, particularly among foreign visitors. Technical issues with voice recognition technology or application interfaces were also encountered by some users, which marred their experience. These results highlight the importance of strong infrastructure, frequent system maintenance, and consumer education to facilitate smooth and secure use of IoT. Analysis also examined demographic variation in guest receptivity to IoT functionalities. Younger visitors, including Millennials and Gen Z, were more open to utilizing smart technologies and enjoyed their convenience and novelty. Older visitors were more reserved and occasionally preferred human communication to digital interfaces. This implies that while IoT can support customer delight for technologically savvy customers, hotels need to find a balance between automation and human interaction to support multiple customer segments.

The above discussion emphasizes that IoT innovation strongly contributes towards customer delight by providing tailored, effective, and memorable experiences. Yet, to be able to realize its full potential, hotel operators need to overcome problems of cost, security, and digital inclusivity. Strategic investment in secure and user-friendly IoT infrastructure, coupled with employee training and ongoing innovation, is the key to long-term success. The conclusions confirm that intelligent hospitality practices, when done intelligently, have the potential to revolutionize the guest experience and establish a lasting competitive edge in the hospitality business.

7. Findings of Study:

- The research identified that the use of IoT technologies greatly increases customer delight in the hotel sector by providing not only convenient but also emotionally enriching experiences. The guests who engaged with IoT-based services—i.e., voice-controlled

equipment, smart lighting, and mobile room opening—were found to report higher surprise, enjoyment, and satisfaction levels. These services surpassed their expectations, proving the potential of IoT in shifting hotel service delivery from normal to exceptional, thereby building memories that drive return visits.

- One of the key findings of the study identifies the importance of personalization in guest experience. IoT enabled hotels to collect data about guest preferences and utilize it to personalize services like room ambiance, entertainment options, and digital concierge responses. This tailored service delivery instilled a sense of identification and nurturing, and consequently emotional joy.
- Most of the guests commented that individualized attention gave them a sense of being valued and known, emphasizing the importance of IoT in enabling emotionally satisfying hospitality experiences.
- The research also indicated that IoT supports enhanced operational efficiency, which indirectly impacts customer satisfaction and delight. Automation of housekeeping requests, predictive maintenance notifications, and real-time monitoring of services minimized waiting times and service delays.
- Hotel personnel were able to devote more time to guest interaction, resulting in improved customer service. These improvements made the service environment more responsive and seamless, which had a positive impact on the overall experience of the guests. Discoveries further reveal that sustainable aspects of IoT technology appealed to green-aware visitors.
- The systems are smart enough to automate lighting, air conditioning, and water use through occupancy levels were perceived in the positive light. Most of the participants, particularly younger guests, indicated they were more inclined to stay in or recommend a hotel that has active use of technology for sustainability. Therefore, IoT not only contributed to functional advantages but also assisted in building a responsible brand image that contributed to emotional involvement.
- Yet, the research also shed light on a number of difficulties encountered during the implementation of IoT. These ranged from high setup expenses, problems integrating with pre-existing systems, and cybersecurity threats.
- Some of the guests revealed reluctance to employ some of the IoT services out of privacy concerns or lack of familiarity with the technology. The hotel managers added that constant training and customer familiarization were imperative to counteract these obstacles and achieve the fullest potential of IoT services. Finally, the results show demographic differences in the adoption and influence of IoT technologies.
- Tech-conscious visitors, especially Millennials and Gen Z, were receptive and welcomed smart hotel amenities readily. Older visitors, on the other hand, liked traditional services and complained about over-automation encroaching on people-to-people interaction. This suggests the need for a balanced service strategy—combining technological innovation with personalized human engagement—to cater to a diverse customer base and ensure consistent delight across demographics.

8. Conclusion:

This research aimed to identify the role of IoT-based innovations in customer delight in the hospitality sector, especially with regards to intelligent hotel practices. The results have confirmed that the adoption of IoT technology greatly enriches the general guest experience by offering more convenience, personalization, responsiveness, and emotional connections. The evolution from traditional service paradigms to smart, automated spaces presents new value propositions that resonate with technologically advanced travelers and raise service delivery to unprecedented levels. One of the strongest findings of the research is the function of personalization facilitated through IoT applications. Through the collection and analysis of guest preferences, hotels can provide customized experiences that surpass expectations. Aspects like intelligent room settings, AI-based concierge services, and real-time service adaptations play a part in making visitors feel noticed and appreciated. Such an emotional relationship is a vital aspect of customer delight and plays a significant role in customer loyalty and brand advocacy.

The research also highlights the operational effectiveness and sustainability gains that come with IoT implementation. Automation of manual tasks, preventive maintenance, and smart energy use not only save operational expenses but also provide smooth, uninterrupted service. Furthermore, the environmentally friendly features of IoT—e.g., energy-efficient systems—resonate with green guests who appreciate environmental concern boosting the images of the hotel and foster customer satisfaction. The research also noted implementation issues, including expensive installations, data security threats, and the requirement of technical support and continuous system maintenance. Further, a part of the guest constituency, especially aged customers, felt uneasy about automated services, hoping to interact with people. These insights indicate that although IoT can improve guest experiences immensely, it has to be rolled out strategically and in an inclusive manner, so it supports instead of substituting the human touch of hospitality.

The hotel industry can benefit from the research by acquiring an appropriate understanding of how digital transformation, in this case, through the Internet of Things, can be utilized in order to attain customer delight. It fills the gap between service quality and technological innovation by making emotional connects and personalization key to the achievement of smart hospitality practices. This knowledge transfer is greatly facilitated in the context of changing guest behavior in terms of heightened expectations and intensified competition in the hospitality sector. In short, IoT is a powerful instrument for remaking hospitality service delivery, but its greatest potential is through human-centric innovation. Hotels have to balance technology advancement with emotional intelligence in service delivery to guarantee that smart hospitality enhances customer joy. With careful implementation, training, and ongoing innovation, IoT can be a pillar for sustainable growth, competitive edge, and enhanced guest experiences in the hospitality industry of the future.

9. References :

- Anwar, F. A., Deliana, D., & Suyamto. (2024). Digital transformation in the hospitality industry: Improving efficiency and guest experience. Jurnal EMT KITA, 6(3). https://journal.lembagakita.org/index.php/IJMSIT/article/view/3201/2332
- Atzori, L., Iera, A., & Morabito, G. (2010). The Internet of Things: A survey. *Computer Networks*, 54(15), 2787–2805. https://www.sciencedirect.com/science/article/pii/S1389128610001568

- Buhalis, D., & Leung, R. (2018). Smart hospitality—Interconnectivity and interoperability towards an ecosystem. *International Journal of Hospitality Management*, 71, 41–50. https://www.sciencedirect.com/science/article/pii/S0278431917301974
- Car, T., Pilepić Stifanich, L., & Šimunić, M. (2019). Internet of Things (IoT) in tourism and hospitality. In *ToSEE – Tourism in Southern and Eastern Europe* (Vol. 5, pp. 163–175). https://tosee.fthm.hr/images/proceedings/2019/11_Car_PilepicStifanich_Simunic.pdfToSEE 2025
- Cheng, M., Edwards, D., Darcy, S., & Redfern, K. (2023). A digital transformation approach in hospitality and tourism research. *International Journal of Contemporary Hospitality Management*, 35(2), 511-533. https://www.baojunma.com/file/2023_IJCHM_Cheng_et_al.pdf
- Goswami, S., & Sarma, M. K. (2019). Modelling customer delight in hotel industry. *Vision: The Journal of Business Perspective*, 23(1), 1–11. https://journals.sagepub.com/doi/abs/10.1177/0972150918825396Sage Journals
- Gretzel, U., Sigala, M., Xiang, Z., & Koo, C. (2015). Smart tourism: Foundations and developments. *Electronic Markets*, 25(3), 179–188. https://link.springer.com/article/10.1007/s12525-015-0196-8
- Kansakar, P., Munir, A., & Shabani, N. (2019). Technology in hospitality industry: Prospects and challenges. *arXiv preprint arXiv:1709.00105*. https://arxiv.org/abs/1709.00105 arXiv
- Kumar, A., & Mittal, A. (2020). More than a feeling? Toward a theory of customer delight. *Journal of Consumer Satisfaction, Dissatisfaction and Complaining Behavior*, 33, 1–23. https://www.researchgate.net/publication/341171557_More_than_a_feeling_Toward_a_theory_of_customer_delight
- Li, S., Xu, L. D., & Zhao, S. (2015). The Internet of Things: A survey. *Information Systems Frontiers*, 17(2), 243–259. https://link.springer.com/article/10.1007/s10796-014-9492-7
- Marques, J., & Marques, R. P. (Eds.). (2023). Digital transformation of the hotel industry: Theories, practices, and global challenges. Springer. https://www.researchgate.net/publication/371562740_Digital_transformation_of_the_Hotel_Industry_Theories_practices_and_global_challenges
- Mercan, S., Akkaya, K., Cain, L., & Thomas, J. (2020). Security, privacy and ethical concerns of IoT implementations in hospitality domain. *arXiv preprint arXiv:2009.10187*. https://arxiv.org/abs/2009.10187arXiv
- Mews Systems. (2021). IoT in hospitality: How the Internet of Things helps hotels. https://www.mews.com/en/blog/iot-in-hospitality](https://www.mews.com
- Oliver, R. L., Rust, R. T., & Varki, S. (1997). Customer delight: Foundations, findings, and managerial insight. *Journal of Retailing*, 73(3), 311–336. https://www.sciencedirect.com/science/article/abs/pii/S0022435997800028
- Shani, S., Majeed, M., Alhassan, S., & Gideon, A. (2022). Internet of Things (IoTs) in the hospitality sector: Challenges and opportunities. In *Artificial Intelligence and Cybersecurity* (pp. 86–100). Springer.

https://www.researchgate.net/publication/371145072_Internet_of_Things_IoTs_in_the_Hospitality_Sector_Challenges_and_OpportunitiesResearchGate

- Sharma, A., & Goyal, D. P. (2021). Analyzing the applications of Internet of Things in hotel industry. *Journal of Physics: Conference Series*, 1969(1), 012041. https://www.researchgate.net/publication/353418838_Analyzing_the_applications_of_internet_of_things_in_hotel_industryResearchGate
- Shumakova, E. (2021). Digital technologies in the hospitality industry in the context of COVID-19. In Proceedings of the 2nd International Scientific and Practical Conference "COVID-19: Implementation of the Sustainable Development Goals" (pp. 260-266). https://www.scitepress.org/Papers/2021/111189/111189.pdf
- Torres, E. N., & Kline, S. (2013). From satisfaction to delight: A model for the hotel industry. *International Journal of Contemporary Hospitality Management*, 25(5), 642–659. https://www.researchgate.net/publication/242025284_From_satisfaction_to_delight_A_model_for_the_hotel_industryResearchGate
- Wynn, M., & Lam, C. (2023). Digitalisation and IT strategy in the hospitality industry. Systems, 11(10), 501. https://www.mdpi.com/2079-8954/11/10/501