



Recognized by: Higher Education Commission (HEC), Government of Pakistan

Modeling Consumer Trust and Satisfaction with ChatGPT for Travel: An Integrative Framework of AI Perception Dimensions

Dr. Muhammad Amin

Assistant Professor, Department of Business Administration, Iqra University Chak Shahzad Campus, Islamabad
amin.phduibe@gmail.com

Dr. Noheed Khan*

Associate Professor, Department of Management Sciences, Alhamd Islamic University, Islamabad
dr.noheed@aiu.edu.pk
noheed_khan@yahoo.com

Muhammad Wasim

Ph.D Scholar, Department of Business Administration, Federal Urdu University of Arts, Science and Technology, Islamabad.
drmwasim197@gmail.com

*Corresponding Author

ABSTRACT

Drawing on the theory of stimulus–organism–response, this study explores the theoretical understanding of satisfaction of the tourists who practice ChatGPT to get travel recommendations. This study investigates a distinct set of stimulus (perceived intelligence, perceived warmth, and perceived credibility) to create a state of being within the organism tourist’s experience while trust in ChatGPT and how this increases the satisfaction as response. In this research. data gathered from 429 respondents, and all responses were deemed valid for analysis. The dataset was examined using SPSS Amos 24.0 and SPSS 23.0 through structural equation modeling. The predictors perceived intelligence, perceived warmth, and perceived credibility significantly influenced tourists’ experience and trust in ChatGPT. Furthermore, trust and experience mediate the relationship between perceived intelligence, warmth, credibility, and visitor’s satisfaction. These results offer three practical implications. First, travel service providers must prioritize building

customer trust in ChatGPT to enhance overall service experiences. Second, travel agencies can enhance their customer experience by highlighting ChatGPT's perceived intelligence, perceived warmth, and perceived credibility. Finally, service providers should invest in design features that convey perceived intelligence, perceived warmth, and perceived credibility. The application of ChatGPT in the tourism research has largely centered on technology adoption, with comparatively little emphasis on user satisfaction. This research fills the theoretical gap as how tourists' experiences and trust influence their satisfaction with ChatGPT. The findings corroborate the theory of stimulus–organism–response.

Keywords: Hospitality, tourism, ChatGPT, perceived intelligence, perceived warmth, perceived credibility, trust, experience, satisfaction

INTRODUCTION

ChatGPT, a chatbot basing upon GPT-3.5, have emerged an outcome of the ongoing advancement of natural language processing (NLP) tools (Hadi et al., 2024). Modern NLP models, i.e., ChatGPT, can comprehend and produce language resembling that of a human by performing a variety of tasks, including but not limited to automatic summarization, answering queries, translating into a desired language, and machine translation (Bansal et al., 2024; Nazir and Wang, 2023). ChatGPT originated from the study of NLP, an area of AI that aims to make machines capable of comprehending and producing human language (Javaid et al., 2023; Ma et al., 2025). The main objective behind the creation of ChatGPT was to develop an advanced NLP model capable of producing text, translating different languages, and analyzing data (Song and He, 2023; Shin and Kang, 2023). In the meantime, ChatGPT has transformed the approach in artificial intelligence to human-machine interaction (Charlesworth, 2024).

An expanding body of research indicates that, among various industries, the tourism and hospitality sector has been significantly affected by AI technologies, particularly ChatGPT (Dwivedi et al., 2024). ChatGPT is based on a machine learning advanced interface that can provide multiple responses and rapidly adapt to diverse contexts (Bansal et al., 2024). Previously, conventional chatbots held a critical position in the travel industry, but ChatGPT has made a major advancement in the field (Gursoy and Song, 2023). Moreover, traditional chatbots lack flexibility, whereas preset rules specific to a particular domain are required to perform a function (Gunnam, 2024). Furthermore, ChatGPT provides a cutting-edge technology that is flexible on a multitude of subjects (Javaid et al., 2023). Researchers have found that this AI technology develops consumer engagement by simulating human-like interfaces (Hollebeek et al., 2024). In the meantime, ChatGPT's ability to learn and adapt continuously guarantees that its answers remain current, which eliminates the need for regular human updates that are typical of traditional chatbots (Bansal et al., 2024).

Multiple travel platforms, including Kayak, Expedia, and TripAdvisor, have incorporated ChatGPT through in-app plugins to enhance the quality of their customer service (Goktas and Dirsehan, 2023). Online search for travel plans can be time-consuming while ChatGPT can recommend the best travel plans, itineraries, sightseeing programs, quotations, and can be a value-adding tool to enhance experience during or after the trip (Ali et al., 2023). Tourists have to browse many web pages and install several apps to find the travel plans that suit them. Meanwhile, AI Chatbots are based on sophisticated logical reasoning skills and respond like human (Pham et al., 2024). AI chatbots such as chatGPT can swiftly recommend accurate travel plans to tourists (Ali et al., 2023).

Increasingly, travelers are using ChatGPT extensively for planning their trips, reflecting a shift in how people interact with technology in this sector (Wong et al., 2023). One account of the unique features of the service-dominant economy, the hospitality and tourism sector has always embraced emerging technology developments with prudence (Park et al., 2023). However, to enhance customer care interactions and delivery, businesses in the travel and hospitality sector have started experimenting with chatbots for complete care (Khan et al., 2025). Within this perspective, ChatGPT offers specialized applications in the travel and hotel industry that optimize customer interactions (Dwivedi, et al., 2024). The exclusive quality of ChatGPT is its ability to deliver prompt, accurate answers and proficiently handle common queries (Lee et al., 2024). Its application in hospitality and tourism service offerings would help rapidly deliver visitor questions, improving the overall satisfaction of visitors (Kar et al., 2023). Moreover, ChatGPT is able to provide assistance consumers make knowledgeable decisions pertaining to a particular sight to consider (Wong et al., 2023).

Given that interactions in the tourism industry are inherently social and experiential, these traits play a critical role. Adopting an anthropomorphic (intelligence, credibility, and warmth) perspective allows for a deeper understanding of how travelers engage with ChatGPT in ways that align with the emotional and social dimensions of the journey (Li and Lee, 2025). Moreover, exploring anthropomorphism provides insight into how trust and positive user experiences are developed, ultimately shaping consumers' satisfaction with ChatGPT in the setting of travel services (Xu et al., 2024). Trust with positive user experiences with AI systems are among the key factors that have been associated with anthropomorphism (Chen and Park, 2021).

By exploring a connection between anthropomorphic characteristics and visitor satisfaction, we can gain deeper insight into how trust and positive experiences of ChatGPT are formed and sustained within AI-powered travel services (Rather, 2025). Unlike other technology adoption theories, the SOR model offers a comprehensive framework for understanding the factors that drive user satisfaction with innovative technologies (Merabian-Russell 1974; Vafaei-Zadeh et al., 2025). Researchers often prefer this model for studying technology adoption due to its built-in cause-and-effect framework (Al-Nuaimi et al., 2023). Scholars have

explained that external stimuli function as a catalyst for a person's internal emotional situations and accommodate the more sprawling idea of both internal and external environments (Liu et al., 2024). In the meantime, in a particular setting, an organism labels an individual's inner consciousness instantaneously preceding their actual response, succeeding to their perception of both internal and external stimuli (Duong et al., 2025; Merabian-Russell 1974). Finally, the response component of the SOR model represents an individual's automatic reaction to the external stimuli in their surroundings.

This study utilizes a stimulus-organism-response (S-O-R) framework to examine the impacts of perceived intelligence, perceived credibility, and perceived warmth as external factors influencing user satisfaction (response). On the other hand, trust and user experience (internal organism) are proposed as mediating factors. Thus, this paper aims to influence tourists' satisfaction with ChatGPT by combining anthropomorphism elements with the SOR framework (Xu et al., 2024). In real-world terms, the outcomes of this research may assist marketers and industry professionals in harnessing ChatGPT's potential in the hospitality and tourism fields to enhance visitors' trust, experiences, and finally satisfaction with the platform.

Theory, Literature, and hypotheses development

Rooted in stimulus-response theory, the SOR model was formulated by Mehrabian and Russell (1974) in the context of environmental psychology. The SOR model suggests that certain environmental stimuli shape individuals' emotional and cognitive states, which in turn lead to behavioral responses (Maleknia and Enescu, 2025). It is also referred to as the "classical conditioning" model, which is extensively used in psychology and marketing research (Gabelaia and Tracy, 2025). As per the theory of SOR, individual behavior, actions, feelings, and thoughts are influenced by external environmental stimuli (Wang et al., 2024). The way external and internal stimuli affect a person's feelings and cognitive emotions, which in turn outline their responses, is the crucial mechanism of the relations between constructs of the theory of SOR (Zhang et al., 2021).

The SOR model consists of three elements, with the organism functioning as the mediating factor between stimulus and response (Qiu et al., 2023). Meanwhile, the link between stimulus and response follows a linear pattern. The first element of the SOR model is the organism, which reflects internal emotional and cognitive processes (Hao et al., 2024) while the stimulus constitutes the second component of the SOR model, which illustrates that an environmental element can influence an organism (Erensoy 2024). Finally, the third component is the response, which is an outcome of behavioral and psychological reactions (Dimberg, 1987). The SOR framework has seen extensive use in both marketing and tourism studies. Previous studies have examined virtual reality tourism, focusing on aspects of cognition and emotion (Song and Lu, 2024). Additionally, the SOR model is employed in the context of honeymoon tourism (Aguilar-Rivero, 2025). Scholars in the field of marketing have widely applied the SOR paradigm to explain tourists' attitudes and behaviors towards human-AI interactions (Hameed et al., 2025). Similarly, human-

machine interfaces in hospitality and tourism research are analyzed by researchers utilizing the SOR model (Xiong et al., 2023).

In this study, the theory of SOR was set up using perceived intelligence, perceived credibility, and perceived warmth as stimuli. Moreover, the organism is an inner state of the user's emotions that is in between the stimuli and response (Vieira, 2013). The study shows organisms are visitor's trust, and experience that connect stimuli (perceived intelligence, perceived credibility, and perceived warmth) to the response (satisfaction). The constructs of perceived intelligence, perceived credibility, and perceived warmth stimulate users' organism trust, experience, and satisfaction when using ChatGPT for travel services. According to Chen et al. (2022), the organism serves as an emotional and cognitive intermediary between stimulus and response.

Perceived Intelligence

The comprehensive definition of intelligence is the cognitive processes of linguistics, responsiveness, memory, and planning (Shabur, 2024). Intelligence is the capacity to acquire knowledge from surroundings, personal interactions, and acclimate to the environment (Charlesworth, 2024). It is a typical cognitive ability for understanding tasks with logical reasoning and problem-solving (Zhai et al., 2025). Perceived intelligence can be inferred from the speech, outlook, and voice of a person or an object such as ChatGPT (Jo, 2025; Wang et al., 2025). In marketing research, a significant correlation has been identified between consumer trust and ChatGPT's manner of responding to user queries (Choudhury and Shamszare, 2023). In the post-pandemic period, the perceived intelligence of AI-driven chatbots plays a key role in shaping customer experience, trust, and satisfaction (Agarwal et al., 2024). Consumer research indicates that the perceived intelligence of chatbots plays a major role in shaping users' trust in them (Cheng et al., 2022).

Consumers tend to trust chatbots more when they perceive them as intelligent, especially when the chatbot can provide personalized recommendations (Cheng & Jiang, 2022). To enhance consumer trust, chatbots need to showcase their intelligence through the quality of their replies and the relevance of their suggestions (Wang et al., 2023). Scholars have described that perceived intelligence of a Chatbot is considered to be effectiveness, efficiency, and capability to provide the desired output (Chen et al., 2021). Similarly, it has the ability to provide solutions to queries in a limited interface (Hari and Sharma, 2024). The intelligence of ChatGPT is proof that while it can provide personalized information that builds positive experience and trust in customers (Hassan and Magdy, 2025). In the tourism industry, ChatGPT serves as a personal agent to facilitate customers in preparing travel itineraries, booking hotels, flights, and restaurants (Remountakis et al., 2023). When customers perceive a chatbot as intelligent, their trust increases because it can offer effective solutions for travel planning, including personalized itineraries (Shi et al., 2021). Therefore, in this study, it is hypothesized that tourist trust and experience using ChatGPT are stimulated by perceived intelligence.

H1: Consumers' experience with ChatGPT for travel services is positively and

significantly influenced by its perceived intelligence.

H2: Consumers' trust in ChatGPT for travel services is strongly and positively impacted by its perceived intelligence.

Perceived Credibility

Credibility can be defined as a source of information that possesses the quality of believability (Almeida et al., 2023). The degree of believability is another definition of credibility (Mulcahy et al., 2024). Reputable information is information that can be believed (Yones and Muthaiyah, 2023). Similarly, the source of credibility is considered trustworthy (Pooja and Upadhyaya, 2024). The concept of perceived credibility refers to a consumer's trust that the AI chatbot has the capacity to positively impact them by recommending items they have searched for, comparable to interactions between humans (Khan and Mishra, 2024). Furthermore, in the context of artificial intelligence, consumers' perceived credibility reflects the extent to which they consider an AI chatbot to be trustworthy, intelligent, knowledgeable, effective, and capable (Chakraborty and Biswal 2024). Researchers have shown that how credible users perceive ChatGPT to be strongly influences their trust in the chatbot and their willingness to follow its recommendations (Huschens et al., 2023).

AI chatbots tend to be viewed as highly credible when they demonstrate strong honesty in predicting users' needs and consistently perform well in providing assistance to consumers (Mishra et al., 2025). In light of this, developing customized travel plans that are credible and realistic is becoming a significant challenge for travel agencies seeking to utilize ChatGPT (Zhang et al., 2024). Although many individuals and organizations have begun using ChatGPT, it is still in its prime stage for consumers and providers (George and George, 2023). Both researchers and industry professionals highlight that ChatGPT's credibility is largely determined by the quality and effectiveness of the recommendations it provides (AlZaabi et al., 2023).

Consumers may trust that their questions will be recognized and that they will be recommended valuable information, and experience a pleasant engagement with the chatbot (Tsai, 2021). When engaging with AI chatbots, consumers expect their questions to be recognized and answered with accurate, meaningful information that enhances their overall experience (Le, 2023). AI chatbots are seen as credible when they demonstrate strong problem-solving expertise and an ability to deliver personalized solutions (Xu, 2020). Scholars have emphasized the significance of perceived credibility in fostering positive experience, attitudes, and trust in chatbots (Maar et al., 2023). Therefore, in this study, it is hypothesized that tourist trust and experience using ChatGPT are stimulated by perceived credibility.

H3: Consumers' experience with ChatGPT for travel services is positively and significantly shaped by its perceived credibility.

H4: ChatGPT's perceived credibility exerts a strong and positive influence on consumers' trust in its travel-related services.

Perceived Warmth

Perceived warmth is when an individual sends positive vibes to others, and others believe that the person has positive intentions towards them (Chua et al., 2024). The judgment of warmth can be resultant from the unselfish motives of others, showing that they are acting upon our best interests rather than their own (Stephenson, 2025). When others show a high level of warmth, such as kindness, care, and support establish trust and a positive experience (Kim and Park, 2025; Pham et al., 2024). In human-AI interaction, perceived warmth is important for a positive experience and trust in the Chatbot (Kim and Hur, 2024). During travel-related interactions, perceived warmth can strengthen users' sense of social connection with ChatGPT, which plays an important role in developing trust in the chatbot (Hameed et al., 2025). Perceived warmth reflects the chatbot's ability to care about and understand consumers' interests, emotions, and feelings, as well as to recognize their needs (Deng and Yan 2025).

Warmth is linked to understanding the emotions of consumers, instead of being associated with their cognitive efforts, which boosts trust and positive experience with consumers when seeking advice related to tourist planning (Deng and Yan 2025; Li et al., 2024). When seeking advice from an object like ChatGPT, a warm response from ChatGPT brings out a positive experience and trust. A server should have the capability to portray warmth when a highly important task need to be completed (Hernandez and Chekili 2024). Responding with warmth to consumers' emotions is essential, especially when completing a task (Bentsen et al., 2025). When a server satisfies the needs of consumer queries by completing the task warmly, it increases the positive experience and trust level of consumers (Liu et al., 2025). Despite the existence of several advanced AI systems capable of transforming consumer trust and enhancing their experiences, ChatGPT remains the standout option today (Hassan and Magdy, 2025). Therefore, in this study, it is hypothesized that tourist trust and experience using ChatGPT are stimulated by perceived warmth.

H5: Consumers' experience with ChatGPT for travel services is positively and significantly influenced by its perceived warmth.

H6: ChatGPT's perceived warmth has a strong and positive impact on consumers' trust in its travel services.

User's Satisfaction with ChatGPT

Customer satisfaction reflects the gap between what customers expect and the service or product's actual performance (Hidayat and Idrus 2023). Additionally, customer satisfaction results from a customer's experience with a product or brand (Yunpeng and Khan, 2023). Customers spend financial resources to gain positive experiences of a brand (Uzir et al., 2021). They spend money to get the pleasure and benefits of using that system or a brand while after having a positive experience of using that product, customer satisfaction arises (Hidayat and Idrus, 2023). Better performance of a system i.e., ChatGPT psychologically affects customer experience and reliability (Kim et al., 2023). Likewise, when customers perceive an AI system as credible, warm, and intelligent, it contributes to their overall satisfaction (Al-Oraini

2025). Warmth represents a strong emotional connection of the customers with a brand, which affects the degree of satisfaction with a brand (Pham et al., 2024). A user's perception of warmth for using a product or brand may increase positive experience, building trust, and finally achieved satisfaction (Pham et al., 2024).

Because ChatGPT is trained on extensive datasets covering numerous scenarios, it can provide consumers with high-quality information quickly (George and George 2023). When using ChatGPT, users enter particular requests that reflect their preferences since ChatGPT can quickly produce tailored information counting on the consumer's prompts (Bansal 2024). The studies have shown that providing comprehensive information can give users the impression that recommendation agents are looking out for their best interests, ultimately increasing their trustworthiness in the eyes of the user (Ge et al., 2024). Users' satisfaction may increase when they have a positive experience with a system (Pham et al., 2024). Users' trust and pleasant experience for using innovative artificial intelligence Chatbots that suit the customer needs results in their satisfaction (Rane et al., 2024). Based on the discussion above, the following hypothesis is proposed:

H7: A user's experience with ChatGPT has a strong and positive effect on their satisfaction.

H8: A user's trust in ChatGPT significantly and positively influences their satisfaction.

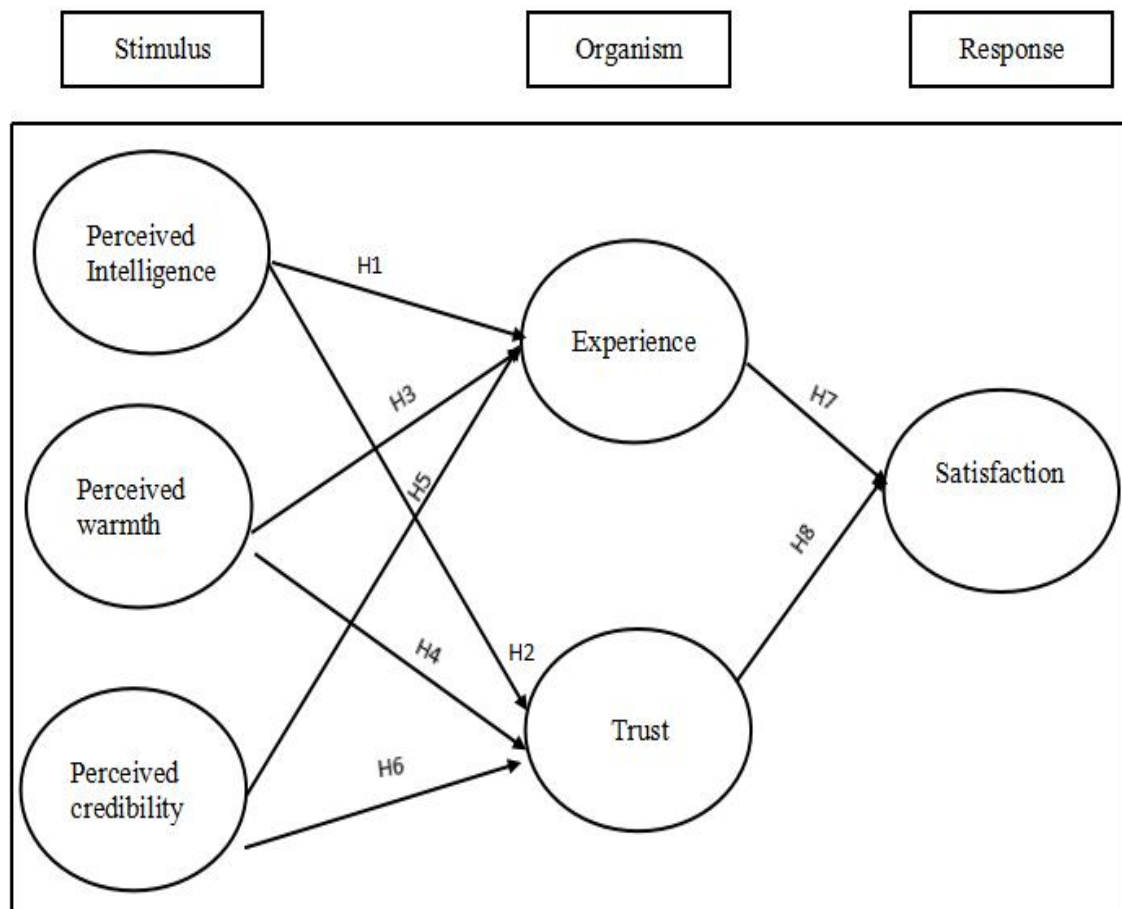


Figure 1. Conceptual framework of the proposed research.

RESEARCH METHODOLOGY

Measurements

This study incorporated six constructs in the proposed research model. The questionnaire was developed using multi-item Likert scales adapted from prior studies. The constructs included perceived intelligence (Pillai & Sivathanu, 2020), perceived warmth (Pham et al., 2024), perceived credibility (Tiwari et al., 2024), satisfaction (Pham et al., 2024), experience (Uzir et al., 2021), and trust (Ali et al., 2023). All items were assessed using a 7-point Likert scale.

Sampling Method and Data Collection Process

For this study, an online survey was created using Google Forms and shared across social media platforms, including Facebook and several WhatsApp groups in Pakistan. For more responses we also distributed printed form of the questionnaire and distributed in the public places including libraries. For better model fit any response which does not satisfied the model and failed the attention-check questions were removed to minimize random response bias. The final sample after deleting incomplete forms consisted on 429 usable questionnaires.

Data Analysis

Participants' Demographic Information

Table 1 presents the demographic details of the survey participants. The majority of respondents were aged between 21 and 30 years (44.29%). Among respondents, 47.56% were female and 52.44% were male. Respondents with bachelor's degrees were representing 41.72% of the total participants. In the occupation section, professional represent 24.48% of participants.

Table 1 Demographical Characteristics of Participants (n = 429)

Demographic information	Response Count	Response Percentage
Respondent Gender		
Male Participants	225	52.44%
Female Participants	204	47.56%
Age (years)		
Less than 20	38	08.85%
21-30	190	44.29%
31-40	160	37.30%
Above 40	41	09.56%
Education		
< High school	65	15.15%
Associate degree/Certificate	78	18.18%
Bachelor	179	41.72%
Master	107	24.94%
Occupation		
Professional	105	24.48%
Managerial	68	15.85%

Other	63	14.69%
Corporate	79	18.41%
Educational	97	22.61%
Households	17	03.96%

Measurement Model

This study employed confirmatory factor analysis (CFA) and structural equation modeling (SEM) following Anderson and Gerbing's (1988) two-step approach, using IBM AMOS 24. The measurement model demonstrated satisfactory goodness-of-fit statistics, with all indices meeting their recommended thresholds: $\chi^2(260) = 619.44$, $\chi^2/df = 2.38$, TLI = 0.95, CFI = 0.98, PNFI = 0.74, PCFI = 0.76, PGFI = 0.66, IFI = 0.98, NFI = 0.94, RFI = 0.92, AGFI = 0.92, GFI = 0.94, and RMSEA = 0.06 (Hu & Bentler, 1999). Composite reliability values ranged from 0.85 to 0.95 (Table 2), exceeding the recommended minimum of 0.70 (Hair, Ringle, & Sarstedt, 2011). Cronbach's alpha values were also strong, ranging from 0.90 to 0.97, confirming internal consistency. Convergent validity was supported, as factor loadings ranged between 0.73 and 0.97, surpassing the 0.70 threshold, and AVE values exceeded the acceptable cut-off of 0.50. Discriminant validity was confirmed using the Fornell-Larcker criterion, with the square root of each AVE being greater than the corresponding inter-construct correlations (Fornell & Larcker, 1981) (Table 3). HTMT values (not reported) were below the recommended limit of 0.90 (Hair et al., 2011; Henseler et al., 2015), further supporting discriminant validity. Overall, the results indicate that the measurement model demonstrates a strong and acceptable fit.

Table 2 Item Loadings, Reliability Coefficients, AVE, and CR

Construct	Items	Items loading	Cronbach's α	CR	AVE
Perceived intelligence (Pillai and Sivathanu, 2020).	PI1	0.88	0.90	0.87	0.63
	PI2	0.83			
	PI3	0.90			
Perceived warmth (Pham et al., 2024).	PW1	0.87	0.90	0.88	0.62
	PW2	0.84			
	PW3	0.91			
Perceived credibility (Tiwari et al., 2024).	PC1	0.97	0.92	0.89	0.58
	PC2	0.95			
	PC3	0.95			
Experience (Uzir et al., 2021).	EXP1	0.73	0.94	0.94	0.87
	EXP2	0.77			
	EXP3	0.90			
Trust (Ali et al., 2023).	TR1	0.83	0.97	0.95	0.76
	TR2	0.84			
	TR3	0.86			
Satisfaction (Pham et al.,	SAT1	0.76	0.90	0.83	0.52

2024).	SAT2	0.83			
	SAT3	0.87			

Table 3 Assessment of Discriminant Validity Based on the Fornell-Larcker Criterion

Variables	Perceived intelligence	Perceived warmth	Perceived credibility	Experience	Trust	Satisfaction
Perceived intelligence	0.79					
Perceived warmth	0.375***	0.78				
Perceived credibility	0.636***	0.125*	0.76			
Experience	0.269***	0.682***	0.422***	0.71		
Trust	0.216***	0.473***	0.229***	0.410***	0.93	
Satisfaction	0.256***	0.174***	0.324***	0.231***	0.411***	0.87

Evaluation of the Structural model

Structural equation modeling (SEM) was performed using IBM SPSS AMOS 24 to test the research hypotheses. The structural model demonstrated a good fit, with all indices meeting recommended thresholds ($\chi^2(260) = 619.44$, $\chi^2/df = 2.38$, TLI = 0.95, CFI = 0.96, RMSEA = 0.069, and other fit indices within acceptable ranges), indicating that the model adequately represents the data (Hu & Bentler, 1999).

Hypothesis testing

Hypothesis testing results, shown in Figure 2 and Table 4, indicate that perceived intelligence, warmth, and credibility significantly enhance both experience and trust. In turn, experience and trust positively influence customer satisfaction, with trust showing a stronger effect. All proposed hypotheses were statistically supported.

Table 4 SEM results for the structural model.

Independent variables	Dependent variables	Regression Weights	t-value	p-value
Perceived intelligence	Experience	0.202	6.141	***
Perceived intelligence	Trust	0.271	6.128	***
Perceived warmth	Experience	0.330	2.351	***
Perceived warmth	Trust	0.390	3.786	***
Perceived credibility	Experience	0.170	3.168	***

Perceived credibility	Trust	0.320	3.179	***
Experience	Satisfaction	0.108	3.208	***
Trust	Satisfaction	0.446	7.433	***

Notes: *p <0.05, ***p <0.001.

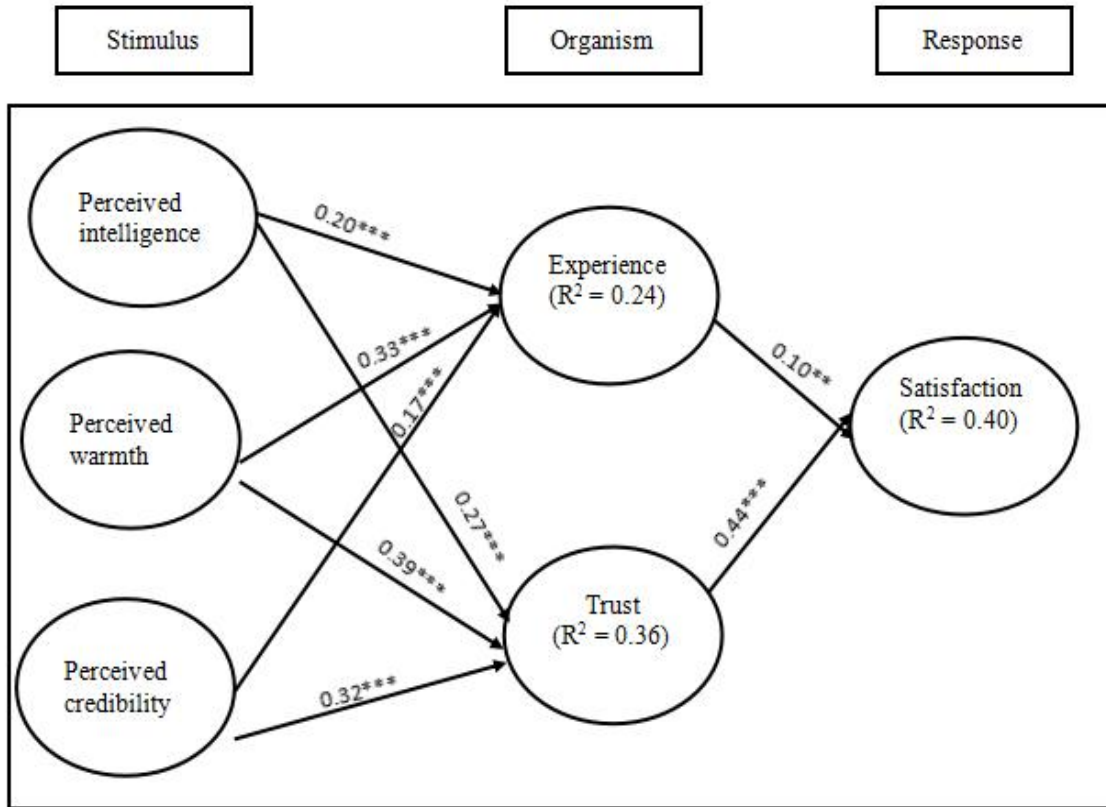


Figure 2. SEM Model with Standardized Path Coefficients and R² Estimates

DISCUSSION AND CONCLUSION

Emerging technologies are transforming the tourism industry, particularly through the development of AI-driven human-machine interactions (Samala et al., 2022). This has changed consumers' preferences, lifestyles, and daily consumption habits (Sharma and Sharma, 2024). Generative artificial intelligence plays a crucial role among emerging technologies, exerting a significant impact on the hospitality and tourism sector (Dogru et al., 2025). Researchers have discovered that ChatGPT stands out in transforming consumers' way of interaction with the new technologies (Bansal et al., 2024). In just two months, it set a new record by attracting one hundred million users worldwide. Recently, travel giant Expedia announced the integration of ChatGPT to provide recommendations for travel plans, time of stay, cost, and hotel activities (Ali et al., 2023). The AI Chatbot can substantially reduce the search time.

The hospitality sector is rapidly integrating AI-powered chatbots to enhance

both the quality and efficiency of customer service (Ali et al., 2023). In addition, AI-driven travel recommendation systems are rapidly transforming the hospitality industry (Ashfaq et al., 2020). AI-based chatbots are software programs that leverage artificial intelligence algorithms to simulate human communication and deliver travel recommendations tailored to users' preferences (Babu Reddy et al., 2024). Several studies have described the Chatbots can provide 24/7 support (Hildebrand and Bergner, 2021), low cost customer service (Wong et al., 2023), personalized travel recommendation (Pillai and Sivathanu, 2020), and quick response to consumer inquiries (Wong et al., 2023). Moreover, based on consumer preferences, AI-based Chatbots can suggest low cost travel, lodging, itineraries, cuisines, hotels, air tickets, and personalized tour programs (Soni, 2025). Therefore, AI-based Chatbots can satisfy their customer and build customer loyalty (Shit et al., 2020). Chatbots can respond efficiently, and effectively to customer's queries (Carvalho and Ivanov (2023).

Scholars have found that many organizations have developed AI-based travel recommendation systems for travelers (Song and He, 2023). Their findings suggest that AI models significantly impact employee skillsets by enhancing their ability to offer travel recommendations, interpret languages, and boost overall productivity. Additionally, ChatGPT contributes to greater efficiency and effectiveness in customer interactions, ultimately resulting in improved guest experiences and fostering trust. Han et al. (2025) explored the key factors influencing consumer behavior toward using ChatGPT for travel-related services. They identified motivation, perceived risk, and innovation as the primary elements shaping tourists' decisions to adopt the tool. These factors were found to significantly affect travelers' willingness to use an AI chatbot for travel advice, especially when opting to bypass human assistance.

Goktas and Dirsehan (2023) investigated how platforms like Expedia and Kayak have integrated ChatGPT to enhance customer engagement and improve service delivery within the travel industry. To improve customer experience, they found that incorporating ChatGPT plugins into their app systems as trip planners significantly increased customer engagement. These in-app AI plugins have delivered advanced customer service in multiple languages, enhanced operational efficiency, and fostered trust and positive user experiences — all contributing to increased customer loyalty. From a strategic customer service perspective, Kayak and Expedia implemented chatbots both before and after the introduction of ChatGPT, ultimately recognizing its potential to position customer service as a competitive strategic advantage. AI tools have been used by travel agencies like TripAdvisor to generate marketing content designed to align with the quality and tone of human-created material. AI plugins help enhance the presentation of travel packages, but they still fall short in consistently securing sales of those offerings.

REFERENCES

- Al-Oraini, B. S. (2025). Chatbot dynamics: trust, social presence and customer satisfaction in AI-driven services. *Journal of Innovative Digital Transformation*.
- AlZaabi, A., ALamri, A., Albalushi, H., Aljabri, R., & AalAbdulsalam, A. (2023). ChatGPT applications in academic research: a review of benefits, concerns, and recommendations. *Biorxiv*, 2023-08.
- Agarwal, P., Swami, S., & Malhotra, S. K. (2024). Artificial intelligence adoption in the post COVID-19 new-normal and role of smart technologies in transforming business: a review. *Journal of Science and Technology Policy Management*, 15(3), 506-529.
- Ali, F., Yasar, B., Ali, L., & Dogan, S. (2023). Antecedents and consequences of travelers' trust towards personalized travel recommendations offered by ChatGPT. *International Journal of Hospitality Management*, 114, 103588.
- Ashfaq, M., Yun, J., Yu, S., & Loureiro, S. M. C. (2020). I, Chatbot: Modeling the determinants of users' satisfaction and continuance intention of AI-powered service agents. *Telematics and Informatics*, 54, 101473.
- Almeida, C., Macedo-Rouet, M., de Carvalho, V. B., Castilhos, W., Ramalho, M., Amorim, L., & Massarani, L. (2023). When does credibility matter? The assessment of information sources in teenagers navigation regimes. *Journal of Librarianship and Information Science*, 55(1), 218-231.
- Aguilar-Rivero, M., Orgaz-Agüera, F., López-Guzmán, T., & Moral-Cuadra, S. (2025). Narratives, emotions and return: a proposed SOR model of film tourism. *Current Issues in Tourism*, 1-17.
- Al-Nuaimi, M. N., Al Sawafi, O. S., Malik, S. I., Al-Emran, M., & Selim, Y. F. (2023). Evaluating the actual use of learning management systems during the covid-19 pandemic: an integrated theoretical model. *Interactive Learning Environments*, 31(10), 6905-6930.
- Bansal, G., Chamola, V., Hussain, A., Guizani, M., & Niyato, D. (2024). Transforming conversations with AI—A comprehensive study of ChatGPT. *Cognitive Computation*, 16(5), 2487-2510.
- Bolanos, F., Salatino, A., Osborne, F., & Motta, E. (2024). Artificial intelligence for literature reviews: Opportunities and challenges. *Artificial Intelligence Review*, 57(10), 259.
- Burger, B., Kanbach, D. K., Kraus, S., Breier, M., & Corvello, V. (2023). On the use of AI-based tools like ChatGPT to support management research. *European journal of innovation management*, 26(7), 233-241.

- Babu Reddy, S., Kathpalia, R., Sil, R., & Nag, A. (2024). Tourism Companion: Enhancing Travel Experiences with AI Chatbot and Soft Computing. In *Soft Computing in Industry 5.0 for Sustainability* (pp. 301-317). Cham: Springer Nature Switzerland.
- Bansal, R. (2024). Unveiling the Potential of ChatGPT for Enhancing Customer Engagement. In *Leveraging ChatGPT and Artificial Intelligence for Effective Customer Engagement* (pp. 111-128). IGI Global Scientific Publishing.
- Bentsen, K., Fischer, E., & Pedersen, P. E. (2025). "It's a tough job, but somebody's got to do it": Committed consumers' voluntary emotion work in alternative market systems. *Journal of Consumer Psychology*.
- Chakraborty, U., & Biswal, S. K. (2024). Is ChatGPT a responsible communication: A study on the credibility and adoption of conversational artificial intelligence. *Journal of Promotion Management*, 30(6), 929-958.
- Chua, B. L., Kim, S., Baah, N. G., Moon, H., Yu, J., & Han, H. (2024). When hospitality brands go green: the role of authenticity and stereotypes in building customer-green brand relationships. *Journal of Sustainable Tourism*, 32(6), 1118-1141.
- Cheng, X., Zhang, X., Cohen, J., & Mou, J. (2022). Human vs. AI: Understanding the impact of anthropomorphism on consumer response to chatbots from the perspective of trust and relationship norms. *Information Processing & Management*, 59(3), 102940.
- Charlesworth, W. R. (2024). Human intelligence as adaptation: An ethological approach. In *The nature of intelligence* (pp. 147-168). Routledge.
- Chhibber, R., & Chadha, C. (2020). Adoption of localization in e-commerce: Impact of localization on emerging smes. In *Advances in Data Sciences, Security and Applications: Proceedings of ICDSSA 2019* (pp. 419-432). Springer Singapore.
- Chen, G., So, K. K. F., Hu, X., & Poomchaisuwat, M. (2022). Travel for affection: A stimulus-organism-response model of honeymoon tourism experiences. *Journal of Hospitality & Tourism Research*, 46(6), 1187-1219.
- Choudhury, A., & Shamszare, H. (2023). Investigating the impact of user trust on the adoption and use of ChatGPT: survey analysis. *Journal of Medical Internet Research*, 25, e47184.
- Carvalho, I., & Ivanov, S. (2023). ChatGPT for tourism: applications, benefits and risks. *Tourism*

Review.

Chon, K. K. S., & Hao, F. (2024). Technological evolution in tourism: a Horizon 2050 perspective. *Tourism Review*.

Christensen, J., Hansen, J. M., & Wilson, P. (2024). Understanding the role and impact of

Generative Artificial Intelligence (AI) hallucination within consumers' tourism decision-making processes. *Current Issues in Tourism*, 1-16.

Cheng, Y., & Jiang, H. (2022). Customer-brand relationship in the era of artificial intelligence:

understanding the role of chatbot marketing efforts. *Journal of Product & Brand Management*, 31(2), 252-264.

Chen, J. S., Le, T. T. Y., & Florence, D. (2021). Usability and responsiveness of artificial

intelligence chatbot on online customer experience in e-retailing. *International Journal of Retail & Distribution Management*, 49(11), 1512-1531.

Caruccio, L., Cirillo, S., Polese, G., Solimando, G., Sundaramurthy, S., & Tortora, G. (2024).

Can ChatGPT provide intelligent diagnoses? A comparative study between predictive models and ChatGPT to define a new medical diagnostic bot. *Expert Systems with Applications*, 235, 121186.

Chen, Q. Q., & Park, H. J. (2021). How anthropomorphism affects trust in intelligent personal

assistants. *Industrial Management & Data Systems*, 121(12), 2722-2737.

Dimberg, U. (1987). Facial reactions, autonomic activity and experienced emotion: A three

component model of emotional conditioning. *Biological psychology*, 24(2), 105-122.

Dwivedi, Y. K., Pandey, N., Currie, W., & Micu, A. (2024). Leveraging ChatGPT and other

generative artificial intelligence (AI)-based applications in the hospitality and tourism industry: practices, challenges and research agenda. *International Journal of Contemporary Hospitality Management*, 36(1), 1-12.

Davis, F. D., Bagozzi, R. P., & Warshaw, P. R. (1989). User acceptance of computer technology:

A comparison of two theoretical models. *Management science*, 35(8), 982-1003.

Duong, C. D., Nguyen, T. H., Ngo, T. V. N., Dao Thanh, T., & Tran, N. M. (2025). Blockchain

technology and consumers' organic food consumption: a moderated mediation model of blockchain-based trust and perceived blockchain-related information transparency. *Journal of Asia Business Studies*, 19(1), 54-78.

Demir, M., & Demir, Ş. Ş. (2023). Is ChatGPT the right technology for service individualization

and value co-creation? evidence from the travel industry. *Journal of Travel & Tourism Marketing*, 40(5), 383-398.

- Gunnam, G. R. (2024). The Performance and AI Optimization Issues for Task-Oriented Chatbots (Doctoral dissertation, The University of Texas at San Antonio).
- Dogru, T., Line, N., Mody, M., Hanks, L., Abbott, J. A., Acikgoz, F., ... & Zhang, T. (2025). Generative artificial intelligence in the hospitality and tourism industry: Developing a framework for future research. *Journal of Hospitality & Tourism Research*, 49(2), 235-253.
- Deng, Z., & Yan, J. (2025). The Effect of Perceived Warmth, Competence, and Social Presence of AI-Driven Chabots on Consumers' Engagement and Satisfaction. *SAGE Open*, 15(3), 21582440251365438.
- Erensoy, A., Mathrani, A., Schnack, A., Elms, J., & Baghaei, N. (2024). Consumer behavior in immersive virtual reality retail environments: A systematic literature review using the stimuli-organisms-responses (S-O-r) model. *Journal of Consumer Behaviour*, 23(6), 2781-2811.
- Florindo, F. (2023). ChatGPT: A Threat or an Opportunity for Scientists?. *Perspectives of Earth and Space Scientists*, 4(1), e2023CN000212.
- Gursoy, D., Li, Y., & Song, H. (2023). ChatGPT and the hospitality and tourism industry: an overview of current trends and future research directions. *Journal of hospitality marketing & management*, 32(5), 579-592.
- George, A. S., & George, A. H. (2023). A review of ChatGPT AI's impact on several business sectors. *Partners universal international innovation journal*, 1(1), 9-23.
- Ge, Y., Liu, S., Fu, Z., Tan, J., Li, Z., Xu, S., ... & Zhang, Y. (2024). A survey on trustworthy recommender systems. *ACM Transactions on Recommender Systems*, 3(2), 1-68.
- Goktas, P., & Dirsehan, T. (2023). Optimizing customer experience in hospitality and tourism with ChatGPT plugins: A strategic guide. Available at SSRN 4602852.
- Gabelaia, I., & Tracy, V. (2025). Redefining Consumer Desires: A Qualitative Study on Marketing's Role in Shaping Modern Wants through Conditional Psychology.
- George, A. S., & George, A. H. (2023). A review of ChatGPT AI's impact on several business sectors. *Partners universal international innovation journal*, 1(1), 9-23.
- Giannakos, M., Azevedo, R., Brusilovsky, P., Cukurova, M., Dimitriadis, Y., Hernandez-Leo, D., ... & Rienties, B. (2025). The promise and challenges of generative AI in education. *Behaviour & Information Technology*, 44(11), 2518-2544.

- Goktas, P., & Dirsehan, T. (2023). Optimizing customer experience in hospitality and tourism with ChatGPT plugins: A strategic guide. Available at SSRN 4602852.
- Guttentag, D. A., Litvin, S. W., & Teixeira, R. (2024). Human vs. AI: can ChatGPT improve tourism product descriptions?. *Current Issues in Tourism*, 1-19.
- Hollebeek, L. D., Menidjel, C., Sarstedt, M., Jansson, J., & Urbonavicius, S. (2024). Engaging consumers through artificially intelligent technologies: Systematic review, conceptual model, and further research. *Psychology & Marketing*, 41(4), 880-898.
- Hadi, M. U., Qureshi, R., Shah, A., Irfan, M., Zafar, A., Shaikh, M. B., ... & Mirjalili, S. (2023). Large language models: a comprehensive survey of its applications, challenges, limitations, and future prospects. *Authorea preprints*, 1(3), 1-26.
- Hsu, C. H., Tan, G., & Stantic, B. (2024). A fine-tuned tourism-specific generative AI concept. *Annals of Tourism Research*, 103723.
- Hari, H., & Sharma, A. (2024). When Chatbots Struggle with Customer Queries: Can Humans Help Them?. *Journal of Computer Information Systems*, 1-11.
- Hidayat, K., & Idrus, M. I. (2023). The effect of relationship marketing towards switching barrier, customer satisfaction, and customer trust on bank customers. *Journal of Innovation and Entrepreneurship*, 12(1), 29.
- Hernandez, I., & Chekili, A. (2024). The silicon service spectrum: warmth and competence explain people's preferences for AI assistants. *Frontiers in Social Psychology*, 2, 1396533.
- Hidayat, K., & Idrus, M. I. (2023). The effect of relationship marketing towards switching barrier, customer satisfaction, and customer trust on bank customers. *Journal of Innovation and Entrepreneurship*, 12(1), 29.
- Hildebrand, C., & Bergner, A. (2021). Conversational robo advisors as surrogates of trust: onboarding experience, firm perception, and consumer financial decision making. *Journal of the Academy of Marketing Science*, 49, 659-676.
- Hao, Y., Hasna, M. F., & Abdul Aziz, F. (2024). The role of emotional mediation in visitor experiences in art tourism: based on stimulus-organism-response model. *Current Psychology*, 43(44), 34018-34034.
- Hameed, A., Din, U. N. U., Ahmad, R., & Amin, B. (2025). The Role of Anthropomorphism in AI: ChatGPT's Impact on Travel Services Using the SOR Model. *Pakistan Journal of*

- Humanities and Social Sciences, 13(2), 177-186.
- Huschens, M., Briesch, M., Sobania, D., & Rothlauf, F. (2023). Do you trust ChatGPT?—perceived credibility of human and AI-generated content. arXiv preprint arXiv:2309.02524.
- Hassan, H., & Magdy, A. (2025). Building consumer trust in the ChatGPT's era: Insights from the hospitality industry. *Tourism and Hospitality Research*, 14673584251343264.
- Han, H., Kim, S., Hailu, T. B., Al-Ansi, A., Loureiro, S. M. C., & Kim, J. J. (2025). Determinants of approach behavior for ChatGPT and their configurational influence in the hospitality and tourism sector: a cumulative prospect theory. *International Journal of Contemporary Hospitality Management*, 37(1), 113-139.
- Ivanov, S., & Soliman, M. (2023). Game of algorithms: ChatGPT implications for the future of tourism education and research. *Journal of Tourism Futures*, 9(2), 214-221.
- Javid, M., Haleem, A., & Singh, R. P. (2023). A study on ChatGPT for Industry 4.0: Background, potentials, challenges, and eventualities. *Journal of Economy and Technology*, 1, 127-143.
- Jiang, S., Zhang, Z., Xu, H., & Pan, Y. (2024). What influences users' continuous behavioral intention in cultural heritage virtual tourism: Integrating experience economy theory and stimulus–organism–response (SOR) model. *Sustainability*, 16(23), 10231.
- Jang, S. S., & Namkung, Y. (2009). Perceived quality, emotions, and behavioral intentions: Application of an extended Mehrabian–Russell model to restaurants. *Journal of Business research*, 62(4), 451-460.
- Jo, H. (2025). Decoding the ChatGPT mystery: A comprehensive exploration of factors driving AI language model adoption. *Information Development*, 41(3), 875-895.
- Khan, M. I., Fatima, J. K., Bahmannia, S., Chatrath, S. K., Dale, N. F., & Johns, R. (2025). Investigating the influence of perceived humanization of service encounters on value creation of chatbot-assisted services. *Journal of Service Theory and Practice*, 35(1), 56-88.
- Khan, A. W., & Mishra, A. (2024). AI credibility and consumer-AI experiences: a conceptual framework. *Journal of Service Theory and Practice*, 34(1), 66-97.
- Kocoń, J., Cichecki, I., Kaszyca, O., Kochanek, M., Szydło, D., Baran, J., ... & Kazienko, P. (2023). ChatGPT: Jack of all trades, master of none. *Information Fusion*, 101861.
- Kasneci, E., Seßler, K., Küchemann, S., Bannert, M., Dementieva, D., Fischer, F., ...

- & Kasneci,
G. (2023). ChatGPT for good? On opportunities and challenges of large language models for education. *Learning and individual differences*, 103, 102274.
- Kar, A. K., Choudhary, S. K., & Ilavarasan, P. V. (2023). How can we improve tourism service experiences: insights from multi-stakeholders' interaction. *Decision*, 50(1), 73-89.
- Kim, J., Kim, J. H., Kim, C., & Park, J. (2023). Decisions with ChatGPT: Reexamining choice overload in ChatGPT recommendations. *Journal of Retailing and Consumer Services*, 75, 103494.
- Kim, J. W., & Park, M. (2025). Concept Analysis of Warmth in Nursing. *Journal of Korean Academy of Fundamentals of Nursing*, 32(2).
- Kim, W. B., & Hur, H. J. (2024). What makes people feel empathy for AI chatbots? Assessing the role of competence and warmth. *International Journal of Human-Computer Interaction*, 40(17), 4674-4687.
- Kim, J. H., Kim, J., Kim, C., & Kim, S. (2023). Do you trust ChatGPTs? Effects of the ethical and quality issues of generative AI on travel decisions. *Journal of Travel & Tourism Marketing*, 40(9), 779-801.
- Kim, J. H., Kim, J., Park, J., Kim, C., Jhang, J., & King, B. (2023). When ChatGPT gives incorrect answers: the impact of inaccurate information by generative AI on tourism decision-making. *Journal of Travel Research*, 00472875231212996.
- Limna, P., & Kraivanit, T. (2023). The role of chatgpt on customer service in the hospitality industry: An exploratory study of hospitality workers' experiences and perceptions. *Tourism and hospitality management*, 29(4), 583-592.
- Loureiro, S. M. C., Ali, F., & Ali, M. (2022). Symmetric and asymmetric modeling to understand drivers and consequences of hotel chatbot engagement. *International Journal of Human-Computer Interaction*, 1-13.
- Li, Y., Hou, R., & Tan, R. (2024). How customers respond to chatbot anthropomorphism: the mediating roles of perceived humanness and perceived persuasiveness. *European Journal of Marketing*, 58(12), 2757-2790.
- Lee, U., Jung, H., Jeon, Y., Sohn, Y., Hwang, W., Moon, J., & Kim, H. (2024). Few-shot is enough: exploring ChatGPT prompt engineering method for automatic question generation in english education. *Education and Information Technologies*, 29(9), 11483-11515.
- Li, Y., & Lee, S. O. (2025). Navigating the generative AI travel landscape: the

influence of ChatGPT on the evolution from new users to loyal adopters. *International Journal of Contemporary Hospitality Management*, 37(4), 1421-1447.

Li, X., Zhao, X., & Pu, W. (2020). Measuring ease of use of mobile applications in e-commerce retailing from the perspective of consumer online shopping behaviour patterns. *Journal of Retailing and Consumer Services*, 55, 102093.

Lin, S. C., Tseng, H. T., Shirazi, F., Hajli, N., & Tsai, P. T. (2023). Exploring factors influencing impulse buying in live streaming shopping: a stimulus-organism-response (SOR) perspective. *Asia Pacific Journal of Marketing and Logistics*, 35(6), 1383-1403.

Liu, S. Q., Vakeel, K. A., Smith, N. A., Alavipour, R. S., Wei, C., & Wirtz, J. (2024). AI concierge in the customer journey: what is it and how can it add value to the customer?. *Journal of Service Management*, 35(6), 136-158.

Le, X. C. (2023). Inducing AI-powered chatbot use for customer purchase: the role of information value and innovative technology. *Journal of Systems and Information Technology*, 25(2), 219-241.

Rane, N., Choudhary, S., & Rane, J. (2024). Artificial intelligence (AI), internet of things (IoT), and blockchain-powered chatbots for improved customer satisfaction, experience, and loyalty. *Internet of Things (IoT), and blockchain-powered chatbots for improved customer satisfaction, experience, and loyalty* (May 29, 2024).

Liu, J., Li, A., Zhu, Y., & Zhang, L. (2024). How do external environmental stimuli and internal psychological cultural identity affect tourists' behavioral intentions in public cultural spaces?. *BMC psychology*, 12(1), 596.

Lappalainen, Y., & Narayanan, N. (2023). Aisha: A Custom AI Library Chatbot Using the ChatGPT API. *Journal of Web Librarianship*, 1-22.

Ma, X., & Huo, Y. (2023). Are users willing to embrace ChatGPT? Exploring the factors on the acceptance of chatbots from the perspective of AIDUA framework. *Technology in Society*, 75, 102362.

Mehrabian, A., & Russell, J. A. (1974). *An approach to environmental psychology*. the MIT Press.

Maduku, D. K., Mpinganjira, M., Rana, N. P., Thusi, P., Ledikwe, A., & Mkhize, N. H. B. (2023). Assessing customer passion, commitment, and word-of-mouth intentions in digital assistant usage: The moderating role of technology anxiety. *Journal of Retailing and Consumer Services*, 71, 103208.

Maar, D., Besson, E., & Kefi, H. (2023). Fostering positive customer attitudes and

- usage intentions for scheduling services via chatbots. *Journal of Service Management*, 34(2), 208-230.
- Mulcahy, R., Riedel, A., Beatson, A., Keating, B., & Mathews, S. (2024). I'm a believer! Believability of social media marketing. *International Journal of Information Management*, 75, 102730.
- Mishra, M. K., Pal, R., & Nayak, R. (2025). Chatbots and AI in Fashion Industry. In Use of Digital and Advanced Technologies in the Fashion Supply Chain (pp. 41-66). Singapore: Springer Nature Singapore.
- M.-Y. Wang, P.-Z. Zhang, C.-Y. Zhou, N.-Y. Lai, Effect of emotion, expectation, and privacy on purchase intention in WeChat health product consumption: the mediating role of trust, *International Journal of Environmental Research Public Health Interventions* 16 (20) (2019) 3861.
- Mich, L., & Garigliano, R. (2023). ChatGPT for e-Tourism: a technological perspective. *Information Technology & Tourism*, 1-12.
- Ma, N., Khynevych, R., Hao, Y., & Wang, Y. (2025). Effect of anthropomorphism and perceived intelligence in chatbot avatars of visual design on user experience: accounting for perceived empathy and trust. *Frontiers in Computer Science*, 7, 1531976.
- Maleknia, R., & Enescu, R. E. (2025). Does climate change stimulate citizens' responses to conserving urban forest? Insights from stimulus-organism-response theory. *Ecological Modelling*, 501, 111000.
- Nazir, A., & Wang, Z. (2023). A comprehensive survey of ChatGPT: advancements, applications, prospects, and challenges. *Meta-radiology*, 1(2), 100022.
- N. Ameen, A. Tarhini, A. Reppel, A. Anand, Customer experiences in the age of artificial intelligence, *Comput. Hum. Behav.* 114 (2020) 106548, <https://doi.org/10.1016/j.chb.2020.106548>.
- Pham, H. C., Duong, C. D., & Nguyen, G. K. H. (2024). What drives tourists' continuance intention to use ChatGPT for travel services? A stimulus-organism-response perspective. *Journal of Retailing and Consumer Services*, 78, 103758.
- Park, H. J., & Zhang, Y. (2022). Technology readiness and technology paradox of unmanned convenience store users. *Journal of Retailing and Consumer Services*, 65, 102523.
- Park, H., Lee, M., & Back, K. J. (2023). A critical review of technology-driven service innovation in hospitality and tourism: current discussions and future research agendas. *International Journal of Contemporary Hospitality Management*, 35(12), 4502-4534.
- Pooja, K., & Upadhyaya, P. (2024). What makes an online review credible? A systematic review of the literature and future research directions. *Management Review*

- Quarterly, 74(2), 627-659.
- Pergantis, P., Bamicha, V., Skianis, C., & Drigas, A. (2025). Ai chatbots and cognitive control: Enhancing executive functions through chatbot interactions: A systematic review. *Brain Sciences*, 15(1), 47.
- Paul, J., Ueno, A., & Dennis, C. (2023). ChatGPT and consumers: Benefits, pitfalls and future research agenda. *International Journal of Consumer Studies*, 47(4), 1213-1225.
- Pillai, R., & Sivathanu, B. (2020). Adoption of AI-based chatbots for hospitality and tourism. *International Journal of Contemporary Hospitality Management*, 32(10), 3199-3226.
- Pham, H. C., Duong, C. D., & Nguyen, G. K. H. (2024). What drives tourists' intention to use ChatGPT for travel services? A stimulus-organism-response perspective. *Journal of Retailing and Consumer Services*, 78, 103758.
- Qiu, H., Wang, X., Wu, M. Y., Wei, W., Morrison, A. M., & Kelly, C. (2023). The effect of destination source credibility on tourist environmentally responsible behavior: An application of stimulus-organism-response theory. *Journal of Sustainable Tourism*, 31(8), 1797-1817.
- Ray, P. P. (2023). ChatGPT: A comprehensive review on background, applications, key challenges, bias, ethics, limitations and future scope. *Internet of Things and Cyber-Physical Systems*.
- Remountakis, M., Kotis, K., Kourtzis, B., & Tsekouras, G. E. (2023). ChatGPT and persuasive technologies for the management and delivery of personalized recommendations in hotel hospitality. *arXiv preprint arXiv:2307.14298*.
- Rather, R. A. (2025). AI-powered ChatGPT in the hospitality and tourism industry: benefits, challenges, theoretical framework, propositions and future research directions. *Tourism Recreation Research*, 50(3), 652-662.
- Shi, J., & Jiang, Z. (2023). Competence or warmth: why do consumers pay for green advertising?. *Asia Pacific Journal of Marketing and Logistics*, 35(11), 2834-2857.
- Stephenson, B. (2025). The influence of branded business gifts on consumer reciprocity and purchase intention. *Journal of Product & Brand Management*.
- Su, L., Wang, X., Lin, Z., & Xiao, S. (2025). From impression to expression: How warmth and competence in relaxing and challenging activities shape pleasure and eWOM. *Psychology & Marketing*, 42(1), 64-79.
- SONI, D. (2025). AI-Powered Marketing in Tourism: Targeting, Personalisation, and Consumer

- Insights in the Digital Age. Multidisciplinary Research Area in Arts, Science & Commerce (Volume-7), 43.
- Shabur, M. A. (2024). The potential and implications of artificial intelligence in Bangladesh's early career planning education. *Discover Global Society*, 2(1), 50.
- Shi, S., Gong, Y., & Gursoy, D. (2021). Antecedents of trust and adoption intention toward artificially intelligent recommendation systems in travel planning: a heuristic-systematic model. *Journal of Travel Research*, 60(8), 1714-1734.
- Song, H., & Lu, S. (2024). The effect of virtual tourism experience on tourist responses: the lens from cognitive appraisal theory. *Asia Pacific Journal of Tourism Research*, 29(7), 885-899.
- Sigala, M., Ooi, K. B., Tan, G. W. H., Aw, E. C. X., Buhalis, D., Cham, T. H., ... & Ye, I. H. (2024). Understanding the impact of ChatGPT on tourism and hospitality: Trends, prospects and research agenda. *Journal of Hospitality and Tourism Management*, 60, 384-390.
- Song, Y., & He, Y. (2023). Toward an intelligent tourism recommendation system based on artificial intelligence and IoT using Apriori algorithm. *Soft Computing-A Fusion of Foundations, Methodologies & Applications*, 27(24).
- Samala, N., Katkam, B. S., Bellamkonda, R. S., & Rodriguez, R. V. (2022). Impact of AI and robotics in the tourism sector: a critical insight. *Journal of tourism futures*, 8(1), 73-87.
- Sharma, A. K., & Sharma, R. (2024). Assessing the influence of artificial intelligence on sustainable consumption behavior and lifestyle choices. *Young Consumers*.
- Shin, S., Kim, J., Lee, E., Yhee, Y., & Koo, C. (2023). ChatGPT for Trip Planning: The Effect of Narrowing Down Options. *Journal of Travel Research*, 00472875231214196.
- Shin, H., & Kang, J. (2023). Bridging the gap of bibliometric analysis: The evolution, current state, and future directions of tourism research using ChatGPT. *Journal of Hospitality and Tourism Management*, 57, 40-47.
- Solomovich, L., & Abraham, V. (2024). Exploring the influence of ChatGPT on tourism behavior using the technology acceptance model. *Tourism Review*.
- Sop, S. A., & Kurçer, D. (2024). What if ChatGPT generates quantitative research data? A case study in tourism. *Journal of Hospitality and Tourism Technology*.
- Singh, V., & Singh, A. (2024). Revolutionizing the Hospitality Industry: How

chatGPT

- Empowers Future Hoteliers. In *Leveraging ChatGPT and Artificial Intelligence for Effective Customer Engagement* (pp. 192-203). IGI Global.
- Tiwari, C. K., Bhat, M. A., Khan, S. T., Subramaniam, R., & Khan, M. A. I. (2024). What drives students toward ChatGPT? An investigation of the factors influencing adoption and usage of ChatGPT. *Interactive Technology and Smart Education*, 21(3), 333-355.
- Tan, S. M., & Liew, T. W. (2022). Multi-chatbot or single-chatbot? The effects of m-commerce chatbot interface on source credibility, social presence, trust, and purchase intention. *Human Behavior and Emerging Technologies*, 2022.
- Tsai, W. H. S., Liu, Y., & Chuan, C. H. (2021). How chatbots' social presence communication enhances consumer engagement: the mediating role of parasocial interaction and dialogue. *Journal of Research in Interactive Marketing*, 15(3), 460-482.
- Uzir, M. U. H., Al Halbusi, H., Lim, R., Jerin, I., Hamid, A. B. A., Ramayah, T., & Haque, A. (2021). Applied Artificial Intelligence and user satisfaction: Smartwatch usage for healthcare in Bangladesh during COVID-19. *Technology in society*, 67, 101780.
- Vafaei-Zadeh, A., Nikbin, D., Wong, S. L., & Hanifah, H. (2025). Investigating factors influencing AI customer service adoption: An integrated model of stimulus-organism-response (SOR) and task-technology fit (TTF) theory. *Asia Pacific Journal of Marketing and Logistics*, 37(6), 1465-1502.
- Vieira, V. A. (2013). Stimuli-organism-response framework: A meta-analytic review in the store environment. *Journal of Business research*, 66(9), 1420-1426.
- Wang, S., Berbekova, A., Uysal, M., & Wang, J. (2024). Emotional solidarity and co-creation of experience as determinants of environmentally responsible behavior: A stimulus-organism-response theory perspective. *Journal of Travel Research*, 63(1), 115-135.
- Wong, I. A., Lian, Q. L., & Sun, D. (2023). Autonomous travel decision-making: An early glimpse into ChatGPT and generative AI. *Journal of Hospitality and Tourism Management*, 56, 253-263.
- Wang, C., Li, X., Liang, Z., Sheng, Y., Zhao, Q., & Chen, S. (2025). The roles of social perception and AI anxiety in individuals' attitudes toward ChatGPT in education. *International Journal of Human-Computer Interaction*, 41(9), 5713-5730.
- Wang, C., Li, Y., Fu, W., & Jin, J. (2023). Whether to trust chatbots: Applying the

- event-related approach to understand consumers' emotional experiences in interactions with chatbots in e-commerce. *Journal of Retailing and Consumer Services*, 73, 103325
- Wang, P. Q. (2024). Personalizing guest experience with generative AI in the hotel industry: there's more to it than meets a Kiwi's eye. *Current Issues in Tourism*, 1-18.
- Wang, J., Liang, Y., Meng, F., Shi, H., Li, Z., Xu, J., ... & Zhou, J. (2023). Is chatgpt a good nlg evaluator? a preliminary study. *arXiv preprint arXiv:2303.04048*.
- Xiao, B., & Benbasat, I. (2007). E-commerce product recommendation agents: Use, characteristics, and impact. *MIS quarterly*, 137-209.
- Xu, H., Law, R., Lovett, J., Luo, J. M., & Liu, L. (2024). Tourist acceptance of ChatGPT in travel services: the mediating role of parasocial interaction. *Journal of Travel & Tourism Marketing*, 41(7), 955-972.
- Xu, Y., Shieh, C. H., van Esch, P., & Ling, I. L. (2020). AI customer service: Task complexity, problem-solving ability, and usage intention. *Australasian marketing journal*, 28(4), 189-199.
- Xiong, Z., Luo, L., & Lu, X. (2023). Understanding the effect of smart tourism technologies on behavioral intention with the stimulus-organism-response model: a study in Guilin, China. *Asia Pacific Journal of Tourism Research*, 28(5), 449-466.
- Xue, Z., Xu, C., & Xu, X. (2023). Application of ChatGPT in natural disaster prevention and reduction. *Natural Hazards Research*, 3(3), 556-562.
- Ying, T., Tang, J., Ye, S., Tan, X., & Wei, W. (2022). Virtual reality in destination marketing: telepresence, social presence, and tourists' visit intentions. *Journal of Travel Research*, 61(8), 1738-1756.
- Yunpeng, S., & Khan, Y. A. (2023). Understanding the effect of online brand experience on customer satisfaction in China: a mediating role of brand familiarity. *Current Psychology*, 42(5), 3888-3903.
- Yones, P. C. P., & Muthaiyah, S. (2023). eWOM via the TikTok application and its influence on the purchase intention of something products. *Asia Pacific Management Review*, 28(2), 174-184.
- Zhai, X., Nyaaba, M., & Ma, W. (2025). Can generative AI and ChatGPT outperform humans on cognitive-demanding problem-solving tasks in science?. *Science & Education*, 34(2), 649-670.

- Zhang, X., Chen, A. L., Piao, X., Yu, M., Zhang, Y., & Zhang, L. (2024). Is AI chatbot recommendation convincing customer? An analytical response based on the elaboration likelihood model. *Acta Psychologica*, 250, 104501.
- Zarezadeh, Z. Z., Benckendorff, P., & Gretzel, U. (2023). Online tourist information search strategies. *Tourism Management Perspectives*, 48, 101140.
- Zhu, W., Nah, F. F. H., & Zhao, F. (2003). Factors influencing users' adoption of mobile computing. In *Managing e-commerce and mobile computing technologies* (pp. 260-271). IGI Global.
- Zhang, J., Mills, D. J., & Huang, H. W. (2024, March). Enhancing travel planning and experiences with multimodal ChatGPT 4.0. In *Proceedings of the 2024 international conference on innovation in artificial intelligence* (pp. 12-19).
- Zhang, G., Yue, X., Ye, Y., & Peng, M. Y. P. (2021). Understanding the impact of the psychological cognitive process on student learning satisfaction: combination of the social cognitive career theory and SOR model. *Frontiers in Psychology*, 12, 712323.