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# The influence of customer trust and artificial intelligence on customer engagement and loyalty – The case of the home-sharing industry

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Trust is an essential factor in online and offline transactions. However, the role of customer trust has received limited attention in the homesharing economy. Drawing on the revised stimulus organism response model and trust transfer theory, this paper examines how customer trust in home-sharing hosts and platforms affects customer relationships, manifested in customer engagement and loyalty. As artificial intelligence (AI) is extensively utilized within home-sharing platforms to facilitate business operations and enhance the customer experience, this study also examines the influence of AI on customer trust and other related outcomes. The research was undertaken in China, with respondents who had used home-sharing platforms. Results from structural equation modeling show that customer trust had a significant positive relationship with customer engagement and loyalty. Customer engagement mediates the relationship between trust and loyalty, while AI may have a negative moderating effect between host trust and customer engagement and customer engagement and loyalty. The paper contributes to marketing, sharing economy and AI research. The work has implications for practitioners offering suggestions to develop marketing strategies for business growth and sustainability.

#### KEYWORDS

trust, AI, sharing economy, customer engagement, loyalty

# Introduction

Trust is a critical issue for home-sharing businesses (Hossain, 2021). Unlike e-commerce, the sharing economy is not conducted in the virtual world. Contact within the real world (such as contact between hosts and guests, and Uber drivers and passengers) may damage goods or cause physical harm and potentially even the loss of life (Ter Huurne et al., 2017). Moreover, the regulatory uncertainty in this area increases the lack of security (Ranchordás, 2015). Trust helps overcome uncertainty, mitigate risk, and drive the success of C2C (customer-to-customer) platforms (McKnight and Chervany, 2001). Previous studies have proved that trust positively relates to behavior intention in Airbnb (Park and Tussyadiah, 2020). Furthermore, trust can bring other service outcomes (such as technical, functional and economic quality) (Doney et al., 2007; Watt and Wu, 2018). However, to the best of our knowledge, there is no research focused on trust outcomes in the homesharing business.

Customer engagement and loyalty are highly related to service outcomes (economic quality). They have long been regarded as effective marketing strategies to maximize profitability and gain competitive advantages (Alvarez-Milán et al., 2018; Wang et al., 2021). Previous studies proved that trust could be a driver of customer engagement and loyalty (McKnight and Chervany, 2001; Kosiba et al., 2020), but whether this relationship still exists in the context of homesharing platforms is still unknown. By extending the stimulus organism response model (SOR), we proposed that customer trust is the stimulus factor that can drive customer engagement (organism) and customer loyalty (response). Therefore, in this study, trust formation refers to how trust affects service outcomes (customer engagement and loyalty). Trust in the home-sharing industry is a hierarchical, two-fold construct, including trust in the platform and the host (Hawlitschek et al., 2016). We focused on trust in the hosts and trust in the platform and examined whether there is a trust transfer between them.

Artificial intelligence (AI) has been applied in home-sharing businesses and proved to be a cost-effective application (Ivanov and Webster, 2017). In home-sharing businesses, AI refers to smart devices or applications based on AI technologies, which are utilized to reduce costs and enhance the customer experience. For example, hosts use smart home devices (such as smart lock, smart thermostat, and home assistant) based on AI technology to reduce costs. AI can help foster trust through background checking and ID verification (Chen et al., 2021) and enhance customer engagement and loyalty by providing a memorable service experience (Prentice and Nguyen, 2020). Although AI is widely used in home-sharing businesses, the research in the sharing economy is in its infancy (Vlačić et al., 2021), and its contributions are underexplored. It is not clear what role AI plays in the home-sharing platform. Therefore, this study aims to respond to the following research questions: (1) whether trust in the host is related to the trust associated

with home-sharing platforms, (2) how customer trust affects customer engagement and loyalty, (3) What role does AI plays in the home-sharing platforms.

This study adopts the revised stimulus organism response (S-O-R) theory and trust transfer theory to model the complex causal relationships. Research findings will contribute to marketing, sharing economy, and AI research. The study may contribute to marketing, sharing economy, and AI research. This study enriches the sharing economy literature by evaluating the role of AI and customer trust. It contributes to customer loyalty literature by bridging customer trust, engagement and loyalty in the sharing economy domain and using the extended SOR model as well as extending the AI literature by focusing on whether AI enhances customer relationships in the home-sharing platforms. The study also has important practical implications for home-sharing practitioners and other stakeholders. The following sections review the AI, trust, customer engagement, and customer loyalty literature and hypotheses development. Methodology, findings, discussion, and implications are then presented.

# Literature review

# The revised stimulus organism response model

The concept of the "Stimulus Organism Response" (SOR) model was developed from the theory of stimulus-response (Mehrabian and Russell, 1974). It indicates that environment and information signals play as stimuli and affect an individual's responses, which affect behavior intentions (Bigne et al., 2020). The SOR model includes three components, which are stimulus (inputs), organism (processes), and response (outputs) (Mehrabian and Russell, 1974). It provides the theoretical foundation for consumer behavior studies (Kamboj et al., 2018; Islam et al., 2020; Amin et al., 2021). Scholars have extended the SOR model to fix their research context (Jang and Namkung, 2009; Kim et al., 2020). For example, Hossain et al. (2021) adopted this model and assumed that customers' interactions would affect their flow experience and finally influence their trust, commitment and CRM performance. In this study, we extend the model to customer trust as the stimulus because it is an essential factor of the sharing economy. Customers can interact and reshape their evaluation. The organism is based on customers' evaluations and perceptions and reflects the internal processes between the stimulus and customers' final response (Islam and Rahman, 2017). Customer engagement is proposed as an organism. We suggest that customer engagement with the home-sharing platform will be affected by the trustworthiness of hosts and the platform. The SOR model's response component is the outcome of customers' actions and behavior, which is reflected as customer loyalty in this study. In association with the literature, the current study develops and tests an



TABLE 1 Summarize key constructs.

Construct	Definitions	Relationships
Customer trust	Trust refers to the personal bond between customers and the focal object (like a brand). Customers relied on the focal thing and believed that it acts in the customers' best interest (Li et al., 2020; Ng et al., 2020). It is the confidence between exchange partners' integrity and reliability. (Rather, 2018, 2020; Rather et al., 2018).	Driver: Trust is one of the drivers of customer engagement. Customer trust positively impacts loyalty (Bowden, 2009; Ng et al., 2020; Rather, 2020). Mediator: Customer trust fully mediated the influence of customer engagement on brand loyalty (Li et al., 2020).
Customer engagement	Customer engagement is defined from different perspectives: Interactive: Most definitions share the concept's core interactive nature (Rather et al., 2022). It refers to individuals participating in and connecting with an organization's offerings or activities (Rather et al., 2019). A behavior beyond transaction: Brodie et al. (2011) defined CE as "a psychological state, which occurs by interactive customer experiences with a focal object (e.g., a brand/destination)". Van Doorn et al. (2010, p. 254) defined CE as "behaviors that go beyond transactions and may be specifically defined as a customer's behavioral manifestations that have a brand or firm focus, beyond purchase, resulting from motivational drivers" (Rather, 2020).	Mediator role: Customer engagement mediates the relationship between place attachment and place authenticity on customer trust, loyalty, and cocreation (Rather et al., 2019). Influences on behavior intention: Customer engagement dimensions affect customer experience and cocreation, subsequently affecting revisit intent (Rather et al., 2022). The indirect effects of customer engagement dimensions on behavioral intentions <i>via</i> understanding and identification (Rather, 2020). Driven by many factors: Customer engagement is driven by satisfaction, positive emotions, and trust. It also increases satisfaction, commitment, trust, and loyalty (Rather, 2019; de Oliveira Santini et al., 2020).
Customer loyalty	Customer loyalty influences companies both in the long term and short term because it helps to gain new consumers and loyal customers likely to re-buying or re-patronizing products and services (Rather et al., 2018; Rather, 2019). Customer loyalty has two components: behavioral and attitudinal (Li et al., 2020).	Customer loyalty is a result of customer engagement. Customers who engage with a brand and service provider are expected to build positive attitudes instantly. Such perspectives draw on specific behavior such as loyalty or word of mouth (Rather et al., 2018; Ng et al., 2020)

extended SOR model to predict customers' behavior on homesharing platforms (Shown in **Figure 1**). Besides, there are several studies focused on customer trust, engagement and loyalty from different perspectives. We summarized these key constructs in **Table 1**. Details of these components are introduced in the following sections.

### Trust in hosts and trust in the platform

Trust reflects that both parties show vulnerability to the other in uncertain circumstances and expect the other party to honor obligations (Ter Huurne et al., 2017). It is an essential element that sustains the development and the success of the sharing economy as it overcomes uncertainty and mitigates risk, ensuring long-term success (McKnight and Chervany,

2001; Botsman and Rogers, 2011). Scholars have proposed that the critical challenge in the sharing economy (e.g., home sharing, car sharing) is trust between strangers (Ter Huurne et al., 2017; Räisänen et al., 2021). The transaction model in the sharing economy requires interaction with unknown parties, which may damage goods, cause physical harm, or even cause loss of life. Regulatory uncertainty is a characteristic of the sharing economy (Ranchordás, 2015). Trust in homesharing is a hierarchical, two-fold construct (Hawlitschek et al., 2016). According to Cheng (2016) three-level micro-mesomacro typology of the sharing economy, trust not only exists at the individual level (hosts and guests' level) but also at the meso level (sharing platform level). Specifically, trust is not only a matter for the hosts but also relates to trust in the operating platform. Thus, trust in home-sharing platforms is interpreted as trust in the platform and the host. Trust in the platform

suggests that customers believe the home-sharing platform protects against perceived risks. Trust in the host relates to the reliability and trustworthiness of the host.

There is a trust transfer between the trust for the underlying platform and the trust between stakeholders. The rationale for this proposition is based on Strub and Priest (1976) trust transfer theory, which suggests that trust can be transferred from different parties when the trustor has little or no experience (Strub and Priest, 1976). A trustworthy intermediary helps build the buyers' trust by reducing potential risks within the e-commerce industry (Verhagen et al., 2006). Mittendorf (2017) has also demonstrated that this relationship exists in the Uber ride-sharing platform. Trust is transferred from the Uber platform to the drivers (Mittendorf, 2017). This discussion leads to the following hypothesis:

**H1:** Trust in the platform is positively and significantly related to trust in the host within the sharing economy.

## Trust and customer engagement

Customer engagement has been defined from different perspectives, for instance, a psychological process (Bowden, 2009), behavioral manifestation (Van Doorn et al., 2010) and a psychological state (Patterson et al., 2006). Patterson et al. (2006) defined customer engagement as a psychological state characterized by vigor, dedication, absorption, and interaction. We argue that customer engagement in the homesharing platforms is a psychological state that reflects how customers' psychological feelings about hosts and the sharing platforms. Customer engagement in the sharing economy reflects engagement with macroscopical economic actors (macro-level), engagement with platforms (Meso level), and engagement with service providers (macro-level) (e.g., Uber drivers and Airbnb hosts) (Breidbach and Brodie, 2017). This study focuses on the meso level and investigates engagement with home-sharing platforms.

Trust is a driver of customer engagement and is essential for long-term relationships because people prefer interactions in a trust relationship (Nahapiet and Ghoshal, 1998; Kosiba et al., 2020). Researchers pointed out that customers who trust online hotel websites are more likely to book online and commit to their relationship (Agag and El-Masry, 2016). A lack of trust is considered one of the leading causes of consumer non-engagement (Pavlou, 2003). Therefore, the following two hypotheses were proposed:

**H2a**: Trust in the host is positively and significantly related to customer engagement in the sharing economy.

**H2b**: Trust in the platform is positively and significantly related to customer engagement in the sharing economy.

## Trust and customer loyalty

Customer loyalty is a crucial factor and an indicator of organizational competitiveness and business success (Krumay and Brandtweiner, 2010; Best, 2013). It is critical for the homesharing industry as it relies upon the return of both hosts and guests (Calixte et al., 2016). Moreover, customer loyalty reduces marketing costs as advertisements are less needed to attract repeat customers (Griffin and Herres, 2002). Customer loyalty includes attitudinal and behavioral loyalty. Attitudinal loyalty refers to the emotional attachment to an organization, while behavioral loyalty relates to the direct monetary benefit to the organization (Bandyopadhyay and Martell, 2007; Islam et al., 2020).

Trust can result in positive attitudes toward a brand (Jarvenpaa et al., 1999; Swan et al., 1999) and is a fundamental mechanism for building customer loyalty (Lee et al., 2015). Trust drives customer loyalty and the long-term success of C2C platforms (McKnight and Chervany, 2001). Trust also influences consumers' purchase intention directly and indirectly (Grazioli and Jarvenpaa, 2000; Abubakar, 2016). In building trust, customers perceive positive outcomes and pursue for a long time positive results in the future, which reflects customer loyalty (Yap et al., 2012). When customers trust hosts and platforms in home-sharing platforms, they prefer to repurchase in the future. Two hypotheses were developed below:

**H3a:** Trust in the host is positively and significantly related to customer loyalty in the sharing economy.

**H3b:** Trust in the platform is positively and significantly related to customer loyalty in the sharing economy.

Research has shown that customer engagement impacts loyalty (Hollebeek, 2011; Prentice et al., 2018). Customer engagement is a psychological process that drives loyalty (Hapsari, 2017). Suppose customer engagement with a sharing platform is positive. In that case, it can lead to positive satisfaction, trust, and commitment and may result in further interaction and customer loyalty (Breidbach and Brodie, 2017). Thus, the following hypothesis was proposed:

**H4:** Customer engagement is positively related to customer loyalty in the home-sharing industry.

Many studies have also conceptualized and tested customer engagement as a mediator (Prentice and Nguyen, 2020). Engaged customers have a strong psychological connection with the brand or organization. This connection creates loyalty at and beyond purchase (Brodie et al., 2013; Abou-Shouk and Soliman, 2021). Loyalty is an attitudinal antecedent of customer engagement behaviors such as blogging, online shopping, and commenting. Factors that affect customer engagement also indirectly affect customer loyalty, indicating a mediated relationship (Van Doorn et al., 2010; Prentice and Nguyen, 2020). Therefore, the following hypotheses were proposed:

**H5a:** Customer engagement has a significant mediating effect between trust in the platform and customer loyalty.

**H5b:** Customer engagement has a significant mediating effect between trust in the host and customer loyalty.

## The role of artificial intelligence

Artificial intelligence (AI) has been gradually adopted by industry since it was first proposed in 1956 (Mellit and Kalogirou, 2008; Prentice et al., 2020a). It is the ability of a system to interpret and learn from external data and achieve specific goals and tasks (Libai et al., 2020). Prentice et al. (2020) defined AI as intelligent performance and behaviors by machines, computers, or robots to assist humans and businesses. With this in mind, and for the purpose of this review, we define it as applications or intelligent devices based on AI technologies (such as chatbots and voice/facial recognition systems), which are utilized in home-sharing platforms to reduce costs and enhance customer experience. Several home-sharing platforms have adopted various AI-based technologies, such as chatbots and facial recognition.

Ivanov and Webster (2017) suggest that AI adoption's most significant financial benefit is labor cost savings. AI can reduce operating costs by 15% and increase revenue by 10% in the hospitality industry (ATM TEM, 2019). Research has established that 15 mins of work by an employee is equivalent to a minute of work by AI (Nam et al., 2020). Greater service availability results in greater ordering opportunities. Chatbots, for example, can provide a 24/7 service rather than the more limited 40-h weekly employee service. Chatbots can also serve multiple customers simultaneously, which is difficult to achieve with human-based services (Ivanov and Webster, 2017). AI also performs better in tedious, repetitive, and intellectually unchallenging tasks (Nam et al., 2020; Prentice et al., 2020a). Employee satisfaction can be improved by relieving them from boring and repetitive tasks. In homesharing services, AI tools can simultaneously reduce repetitive tasks and help manage bookings and general inquiries. Listings that have adopted AI services have increased positive word of mouth as they may be perceived as high-tech accommodation (Doud, 2020).

AI has been adopted to enhance experiences for customers in the pre-transaction, transaction, to post-transaction stages (Lemon and Verhoef, 2016; Grover, 2019; Libai et al., 2020). By enhancing technology-enabled processes, AI reshapes the consumer journey and contributes to the customer relationship (Grover, 2019; Libai et al., 2020). AI can assist customers with purchases, travel choices, location preferences, and hotel payment options (Li et al., 2019; Prentice and Nguyen, 2021). AI experiences in home-sharing occur throughout the customer journey. In the pre-purchase stage, AI improves search rankings based on guest preferences (similar places that the guests click, location preferences) and provides immediate responses through conversational AI technologies (Predictive Analytics Team, 2020). During the purchase process, AI tools can facilitate the payment process. After check-in, customers can use AI tools to enhance security (smart doorbells in Xiaozhu) and enhance their entertainment experience (TV fruit in Tujia). Details of AI adopted in the home-sharing platform are shown in **Table 2**.

Artificial Intelligence-generated smart replies can increase trust between different stakeholders (Hohenstein and Jung, 2020). AI can foster trust through digital services such as background checking and ID verification (Chen et al., 2021). These services encourage customers to interact and engage with the sharing platform. With the help of AI, hosts can provide an outstanding service experience to customers, resulting in customer engagement. A good experience motivates customers to have more "physical, mental, social and emotional" engagement with the company (Carù and Cova, 2003; Prentice and Nguyen, 2020). Guests who experience outstanding services provided by AI tools tend to be more engaged with the platform. A good customer experience can lead to customer engagement and loyalty (Prentice et al., 2019). A memorable experience with AI can enhance the relationship between guests and the home sharing platform. These factors enhance the relationship between customer engagement and loyalty. This discussion leads to the following hypotheses:

**H6a:** AI significantly moderates the relationship between trust in the platform and customer engagement.

**H6b:** AI has a significant moderation effect on the relationship between customer engagement and customer loyalty.

TABLE 2 Artificial intelligence adopted in the home-sharing industry.

Туре	Examples	Platforms
Chatbots	Smartbnb	Airbnb
Voice recognition systems	Control for room temperature (Ecobee), Audio-visual interaction (TV fruit)	Airbnb, Tujia
Facial recognition systems	Guests check-in ("360" smart doorbell, Keycafe)	Xiaozhu, Airbnb
Analytics	Set best price (Beyond pricing, Price tips), guests' background check (Trooly)	Airbnb



The research framework is presented in Figure 2.

# Materials and methods

## Sample

Data were collected during May and June 2021. The sample for this study were Chinese residents over 18 years. Participants should have used a home-sharing platform within the last 2 years, and screening questions were asked to ensure these criteria. The data collecting time was during the pandemic; hence we could only conduct the online survey via social media due to restrictions on personal interactions. This paper employed virtual snowball sampling to access respondents. This method has been widely used as participants can share survey links within their social network (families, relatives, and friends) via social media platforms (e.g., WeChat, Weibo) (Baltar and Brunet, 2012). Virtual snowball sampling is respondent-driven; thus, it can generate a larger population with similar backgrounds (Heckathorn, 2011). This sampling is a good fit for this study as AI is an abstract concept that includes a variety of forms, although some forms may not be perceived as AI (Prentice et al., 2020). By using snowball sampling, participants can share the link with their relatives via social media platforms. At the same time, any relevant queries about AI can be answered directly by friends, which is more effective than responses from the researchers. There are also many home-sharing platforms in China, with many being local platforms only used in China (Cortese, 2020; State Information Center, 2020). The cited home-sharing platforms included Airbnb, Tujia (China's largest home-sharing company), Xiaozhu, and other local Chinese platforms.

## Measurement

Measurement items were adapted from previous research. Factors relating to trust in the platform, trust in the host, customer engagement, customer loyalty, and AI were assessed using a 7-point Likert-type scale (with "1" indicating strongly disagree, and "7" strongly agree). Trust in the platform was measured using seven items (i.e., "I think hosts in this platform are reliable") adapted from Mittendorf (2017) investigated different levels of trust in Uber as "trust in Uber" and "trust in drivers" to establish the relationship between trust and customer intentions. This measure was suitable as it was based on trust in Uber, which was a pioneer of the sharing economy (Mittendorf, 2017). The authors believe that trust in Uber and Airbnb may have similarities as both are leading share platforms and have a similar commercial model. Reliability was 0.88 on this scale. Similarly, trust in the host was measured with five items (i.e., "I trust the platform keeps my best interests in mind") adapted from Jarvenpaa et al. (1999), Koufaris and Hampton-Sosa (2004), which was developed based on trust in an online company or store, and the scale reliability was 0.93.

Customer engagement was measured in three dimensions with 12 items, adapted from Cheung et al. (2011). This measure was suitable as it was developed for a social platform context and reflected customers' vigor, absorption, and dedication to the platform. The reliability was 0.87, 0.90, and 0.90, respectively. Customer loyalty was adapted from Bobâlcă et al. (2012). The scale reliability was 0.92.

AI includes two dimensions, perceived usefulness (PU) and perceived ease of use (PEOU). The two dimensions have six items (i.e., "AI tool is easy to use.") based on the work of Wixom and Todd (2005). As AI is technologically based, understanding AI uses in a home-sharing business does not focus on the technology itself but on how customers perceive it. The measure aims to reflect the degree of customer acceptance of the AI application. Reliability was 0.85 for this variable.

### Data collection procedure

The questionnaire was developed in English and translated into Chinese. The scales and items were then back-translated to English by a qualified translator to ensure validity (Sousa and Rojjanasrirat, 2011). 10 Ph.D students who had experience with home-sharing platforms participated in a pilot test to ensure response time and wording were appropriate. Issues with questions were modified based on the feedback. The study utilized Wenjuanxing1, similar to SurveyMonkey, and is China's top market research tool (Kuo, 2018). The survey link was shared on social platforms such as WeChat, Weibo, and Facebook. Participants were guaranteed that the survey was anonymous and could stop the survey at any time. If all questions were answered, participants would receive a small token of appreciation (2 RMB). The questionnaire included two parts, with a total of 15 demographic questions being asked. The second section asked questions relating to trust, AI, customer engagement, and customer loyalty. A total of 546 responses were received after 1 month, of which 468 valid responses were selected after the exclusion of incomplete questionnaires.

Of the total retained sample, 57.1% were female, and 42.8% were male. Ages ranged from 18 to 56 and older. Nearly half of the respondents were of the 18-25 age group (48.3%), followed by the 26-35 age group (21.6%), the 36-45 age group (16.2%), and the 46-55 age group (9.4%). Only 4.5% of the respondents were 56 or more age group. Most of the respondents (59%) held a bachelor's degree, and most participants were single (54.2%). Table 3 presents the demographic information.

## Data analysis and results

#### Confirmatory factor analysis

Confirmatory factor analysis was used to assess the goodness-of-fit to assess the measurement model. AI and customer engagement were treated as second-order factors. The other three variables were treated as first-order factors. The TABLE 3 Profile of respondents (N = 468).

Characteristics		Percentage
Age	18-25	48.3
	26-35	21.6
	36-45	16.2
	46-55	9.4
	56 or more	4.5
Gender	Female	57.1
	Male	42.8
	Other	0.1
Education level	Bachelor's degree	59
	High school	10.1
	Post-graduate	10.2
	Some college	20.7
Marital status	Defacto relationship	2.8
	Married	42.1
	Divorced	0.9
	Single	54.2

results demonstrated a good model fit [ $\chi^2 = 1288.37$ , df = 545 ( $\chi^2/df = 2.36$ ); CFI = 0.94; TLI = 0.93; RMSEA = 0.04]. **Table 4** suggests that all items had a significant value of loading (greater than 0.50). The value of composite reliability (CR) and average variance extracted (AVE) was higher than 0.70 and 0.50, respectively, confirming adequate convergent validity of the measurement model (Fornell and Larcker, 1981). The correlations between the variables are presented in **Table 5**. The square root of the average variance extracted for each construct was greater than the correlation between the constructs, indicating discriminant validity.

#### Hypotheses testing

Structural equation modeling was used to test the hypotheses. The proposed model showed acceptable model fit:  $\chi^2 = 568.98$ ; df = 183;  $(\chi^2/df = 3.11)$ ; CFI = 0.93; TLI = 0.93; RMSEA = 0.04). The value of R-square for customer engagement and customer loyalty were more than 38% and 54%, respectively, indicating a good fit for the model. H1 proposed that trust in the platform was positively related to trust in the host. The result shows that trust in the platform significantly affected trust in the host ( $\beta = 0.61$ , p < 0.001). H2a-b proposed that trust in the platform/trust in the host significantly affected customer engagement. The result shows that trust in a platform can significantly influence customer engagement ( $\beta = 0.21$ , p < 0.001) and loyalty  $(\beta = 0.47, p < 0.001)$ , indicating both H2a and H2b were confirmed. The result shows that trust in the platform and trust in the host had a positive effect on customer loyalty  $(\beta = 0.11, p < 0.011; \beta = 0.14, p < 0.011)$ . Thus, both H3a and H3b were supported. Further analysis proved H4 ( $\beta = 0.58$ ,

<sup>1</sup> www.sojump.com

### TABLE 4 Confirmatory factor analysis results.

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p < 0.001), which suggested that customer engagement positively affected customer loyalty. Results are shown in Table 6.

Hypotheses 5a and 5b proposed that customer engagement mediated the relationship between customer trust and loyalty. Gaskin and Lim's (2018) plugin was used in AMOS to conduct

	Trust in the platform	Trust in the host	Customer loyalty	Customer engagement	Artificial intelligence
Trust in the platform	0.77				
Trust in the host	0.65	0.81			
Customer loyalty	0.50	0.56	0.82		
Customer engagement	0.59	0.70	0.81	0.82	
Artificial intelligence	0.47	0.45	0.55	0.63	0.86

TABLE 5 Descriptive statistics, correlations, average variance extracted (AVE), and reliability.

Bold values indicates the square root of the average variance.

TABLE 6 Results of the proposed relationships.

Path			β	Sig	Hypotheses	Result
Trust in the platform	->	Trust in the host	0.61	***	H1	Supported
Trust in the platform	->	Customer engagement	0.21	***	H2a	Supported
Trust in the host	->	Customer engagement	0.47	***	H2b	Supported
Trust in the platform	->	Customer loyalty	0.11	**	H3a	Supported
Trust in the host	—>	Customer loyalty	0.14	**	H3b	Supported
Customer engagement	->	Customer loyalty	0.58	***	H4	Supported
$\mathbf{R}^2$						
Trust on hosts			0.37			
Customer engagement			0.38			
Customer loyalty			0.54			
Model fit						
$\chi^2 = 568.98, df = 183, \chi^2/df =$	= 3.11, p < 0.001; 0	CFI = 0.94; TLI = 0.93; RMSEA = 0.0	4			
*** <i>p</i> < 0.001, ** <i>p</i> < 0.01.						

TABLE 7 Mediation test results

Mediator	Between		Estimate	P-value	Lower	Upper
Customer engagement	Trust in the platform	Customer loyalty	0.12	0.001	0.07	0.18
Customer engagement	Trust in the host	Customer loyalty	0.27	0.001	0.21	0.34

a Sobel test. The results (see **Table** 7) show that the mediation effect of customer engagement was significant between trust in the platform and loyalty and between trust in the host and customer loyalty. As customer trust directly affects customer loyalty, the mediation of customer engagement was partially mediated for both trust in the platform and trust in the host. To confirm the mediation effect of customer engagement, the PROCESS macro 3.4 (Hayes, 2017) in SPSS 25.0 with 10, 000 bootstrapping samples was adopted. Results shown in **Table** 7 indicate that the 95% bootstrapping confidence intervals (BootLLCI) for the indirect effect on customer loyalty of trust in the platform was (CI = 0.20, 0.32), and trust in the host was (CI = 0.24, 0.35) not including 0. The result confirmed the mediation effect of customer engagement and supported H5a and H5b.

The moderating effect of AI was examined using AMOS. The results are presented in **Table 8**. The interaction effect between trust in the platform and AI on customer engagement was significant and supported H6a ( $\beta = -0.13$ , p < 0.001). Similarly, the moderation effect of AI on customer engagement

and customer loyalty was also significant ( $\beta = -0.17$ , p < 0.001). The PROCESS macro with a bootstrapped sample of 10,000 (Hayes, 2017) was used again to confirm the moderating effect. The results show that AI significantly moderated the relationship between trust in the platform and customer

TABLE 8 Moderating test results.

Path			β	Р
AI	->	Customer engagement	0.43	***
AI	_>	Customer loyalty	0.20	***
Trust in the platform	->	Customer engagement	0.28	***
Customer engagement	_>	Customer loyalty	0.55	***
Trust in the platform $\times\_\mathrm{AI}$	->	Customer engagement	-0.13	***
Customer engagement×_AI	->	Customer loyalty	-0.17	***
R2				
Customer engagement			0.42	
Customer loyalty			0.57	

\*\*\*p < 0.001.

engagement and customer engagement and customer loyalty (CI = -0.13, -0.04; CI = -0.17, -0.07; not including 0), supporting H6. Figures 3, 4 report the moderating effects of the three values of AI (mean level  $\pm 1$  standard deviation), providing simple slope plots of the interaction effect.

# Discussion

Drawing on the SOR framework and trust transfer theory, this study investigated how customer trust in a platform and host could be transferred to customer engagement and loyalty and reflected on the role of AI during this process. It opted for home-sharing platforms in China as the research context and examined the mediating role of customer engagement and moderating role of AI. The results confirmed that customer trust could drive customer engagement and loyalty, while customer engagement played a mediating role in the proposed model. The moderating influence of AI exists, although its effects are negative. Details of findings are discussed in the following section.

### The influence of customer trust

This study found that trust in the platform positively influenced trust in the host, while customer trust was significantly related to customer engagement and loyalty. The significance of trust has been proved in the sharing economy, which includes the interaction of peers and multiple interactions in both online and offline settings (Luo and Zhang, 2016). When customers have trust in the accommodation sharing platform, hosts benefit from the transfer of trust as trustworthy transaction partners. This result is consistent with that of Mittendorf (2017), Park and Tussyadiah (2020). It confirms the trust formation process between platform providers and





hosts and also emphasizes the important role of platform trustworthiness in customer decision-making.

Customer trust affects engagement and loyalty in a positive way, as shown in this study. It confirms that trust can procure interaction between customers and platform and is transferred to customer engagement (Strub and Priest, 1976; Kosiba et al., 2020). For example, Airbnb hosts are required to accept terms and conditions when they register as a host. In addition, Airbnb has an Airbnb ID Verification, which is used for a background checks and to uncover criminal convictions. As a result, Airbnb removes and blocks dishonest hosts who have criminal records (IGMS, 2020). Through these measures, customers have increased trust that the listing they are booking will be safe and reliable, which increases their willingness to interact with the platform. In terms of the relationship between trust and loyalty, this study shows that customer trust drives loyalty, confirming studies of McKnight and Chervany (2001), Abubakar (2016).

However, the influence of trust in hosts on customer engagement and loyalty was greater than that of trust in platforms. By using the home-sharing platforms, guests want to seek low price accommodation and authentic experiences through interaction with the local community (Park and Tussyadiah, 2020). Hosts are the first person guests contact within the whole community, which indicates that the impression of hosts is likely to determine guests' evaluation of the home-sharing service. When guests choose an accommodation to live in, they check hosts' profiles, ratings, and customer reviews to judge whether the hosts are trustworthy or not. Customers want to stay safe and have a good experience; thus, choosing a trusted host is a high priority.

# The mediation of customer engagement

The link between trust, customer engagement and customer loyalty has been well established in the relevant literature. This study proposed a different research context for homesharing platforms and included customer engagement as the intervening customer-related outcome. The mediating role of customer engagement was confirmed and supported by previous research (Prentice and Nguyen, 2020; Abou-Shouk and Soliman, 2021). The establishment of mediation reflects a customer's mental journey from customer trust, intention to interact, and loyalty behavior. The partial mediation effect indicates that trust in the platform and trust in the host have direct and indirect effects on customer loyalty. This relationship is largely attributed to the determinant role of customer trust. When customers do not trust the hosts or the platform, they may not attend the home-sharing business and never think about engagement or loyalty.

# The moderating role of artificial intelligence

AI has a negative moderating effect on trust in a platform and customer engagement, and customer engagement and loyalty. This finding indicates that customers with a high trust rating in a platform find that using AI does not increase engagement with the platform. Also, customers with high customer engagement do not find that using AI increases their loyalty. Two possible explanations exist: (1) the intangible characteristics of AI and (2) a preference for human interaction.

AI in the home-sharing context is an intangible service, making it difficult to assess and perceive. Prentice and Nguyen (2021) argued that robots and AI services have tangible and intangible forms. Tangible forms include humanoid and nonhumanoid robots, while the intangible are online automated services. However, most AI tools are intangible without physical form, making them harder to perceive. While larger hotel chains can invest in humanoid robot services, it would be uncommon for a home-sharing business to have this investment capacity. It might also be noted that intangible AI can be confusing and frustrating for consumers, potentially resulting in negative feedback.

Further, a debate exists as to whether AI services are better than human interaction. Although the implementation of AI brings cost and time efficiencies, human interaction is still an important factor in the performance of service (Breidbach and Brodie, 2017). Customers prefer contact with human beings rather than robots (Wirtz et al., 2018; Prentice et al., 2020b). Moreover, in the home-sharing context, customers are seeking not only a room but also an authentic local experience (Lee, 2022). Customers prefer an authentic experience with contributions from the host, which is a key characteristic of the home-sharing economy. Unlike robot services or delivery services that are widely used in hotels, most AI tools in the home-sharing platforms focus on system support that hides behind, making it hard for customers to "feel it". Thus, it is hard for customers to give positive feedback to AI services in the home-sharing industry.

# Implications, limitations, and future directions

## Theoretical implications

The theoretical implications for this study are trifold. First, this study contributes to customer loyalty literature using the extended SOR model. Second, it expands the sharing economy research. Third, AI literature is enriched by this study. Details of explanations are as follows. The role of customer engagement has gotten much attention in the marketing domain. Many scholars focused on the relationship between customer engagement and loyalty. However, few studies have explored how customers influence customer loyalty in the sharing economy domain. Therefore, this study advanced customer loyalty literature by combining customer trust as an antecedent and including customer engagement as a mediator. The result shows that the bridge between customer trust, engagement and loyalty does exist in the home-sharing industry. Moreover, the current study extends the use of the SOR model by using customer trust as the stimulus, customer engagement as the organism and customer loyalty as the response. To the best of our knowledge, it is the first paper that extended SOR in this way, which may extend the usage of SOR in future studies.

This research extends the sharing economy literature by evaluating the role of AI and customer trust. The sharing economy research has primarily focused on sustainability or the impact on traditional industries (Narasimhan et al., 2018). This study focused on the outcomes of customer trust in the home-sharing industry, addressing a research gap. It provides a fresh perspective on how customer trust and AI contribute to the performance of home-sharing platforms. Furthermore, whilst most customer loyalty research focuses on marketing promotions and loyalty programs, this study provides a new view of the contribution of customer trust and AI to the customer experience.

As most AI research has tended to focus on AI techniques, this study extends the discussion to the domain of the home-sharing business and its influence on the performance of home-sharing platforms. Results show that AI plays a negative moderating role in the proposed relationships, which is inconsistent with previous research that AI enhances the relationship between customer satisfaction and loyalty (Prentice et al., 2020b). Thus, the adoption of AI is complicated within home-sharing platforms, causing researchers to revise the enhancement effect of AI under the background of sharing economy.

## **Practical implications**

The findings above show how these constructs influence customer loyalty on the home-sharing platforms, which indicates some insights for marketers and hosts.

The findings above show how these constructs influence customer loyalty on the home-sharing platforms, which indicates some insights for marketers and hosts. Customer trust significantly influenced customer engagement and loyalty, resulting in profit and platform development. Improving trust within platforms would benefit marketers, and hosts could consider how to make customers trust them more. For example, hosts who provide real rather than overly embellished photos can increase trustworthiness. Besides, this study confirms that customer engagement drives loyalty and mediates the relationship between trust and loyalty. Enhancing customer engagement within home-sharing platforms may have significant benefits for marketers. Airbnb users could generate content within the Airbnb community, giving users a sense of control and belonging within the platform. This form of community within a sharing platform can enhance customer interaction and engagement.

Although AI did not demonstrate a positive moderation effect on the relationships, this study still has value for practitioners. For example, while customers felt AI service in home-sharing was intangible and hard to perceive, other studies have suggested that human-like robots receive positive customer feedback (Prentice et al., 2020b). Platforms can provide humanlike robots to hosts who won the "Superhosts" badge and see whether the robots will influence customers' experience. Furthermore, the COVID-19 pandemic has increased the interaction risk between hosts and guests. It provides an opportunity for AI technology-based services, but how to capitalize on this opportunity to improve AI services requires further attention from marketers and scholars.

## Limitations and future directions

Some limitations must be acknowledged in this study. Respondents were Chinese citizens meaning the results may lack cultural diversity. The home-sharing platforms were also mostly local Chinese platforms, which may also lack comparison with other international platforms. The dimensions selected to measure AI were restricted to two dimensions and may inhibit a holistic understanding. Future studies will enrich AI dimensions and compare the relationship within home-sharing platforms from diverse backgrounds. The items used were translated and adopted from western scholars, and they may not be appropriate for Chinese respondents. Future studies will focus on the cultural influence on technology acceptance. This study focused on the customers' perspective; future research may wish to explore the hosts' perspective to gain further insights. In terms of customer trust, there are different trust preferences among different people. Some people tend to trust strangers and unfamiliar platforms more easily than others. Future studies should consider different personalities. As AI is hard to perceive, questionnaires may be limited in their capacity to reflect customers' beliefs and attitudes toward AI. Future studies may consider other data collection methods (such as interviews or focus groups) or other research methods (such as meta-analysis or big data) to provide more meaningful insights into the usage of AI in the sharing economy. Lastly, we conducted this study during the pandemic. Future studies should measure this research model in post-pandemic to compare the results.

## Data availability statement

The raw data supporting the conclusions of this article will be made available by the authors, without undue reservation.

# **Ethics statement**

Ethical review and approval was provided by Griffith University. The project name is "The influence of artificial intelligence on customer engagement and customer loyalty in the sharing economy" (GU Ref No: 2019/963). Written informed consent from the patients/ participants or patients/participants legal guardian/next of kin was not required to participate in this study in accordance with the national legislation and the institutional requirements.

# Author contributions

YC wrote the first draft, collected the data, and did the data analysis. CP conceptualized the topic, formulated the model, structured the manuscript, assisted

data analysis, and quality assurance. SW conceptualized the topic and revised the manuscript. AH helped to conceptualize the topic and revise the manuscript. All authors contributed to the article and approved the submitted version.

# Conflict of interest

The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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# References

Abou-Shouk, M., and Soliman, M. (2021). The impact of gamification adoption intention on brand awareness and loyalty in tourism: the mediating effect of customer engagement. *J. Dest. Mark. Manage.* 20:100559. doi: 10.1016/j.jdmm. 2021.100559

Abubakar, A. M. (2016). Does eWOM influence destination trust and travel intention: a medical tourism perspective. *Econ. Res. Ekonomska istraživanja* 29, 598–611. doi: 10.1080/1331677X.2016.1189841

Agag, G., and El-Masry, A. A. (2016). Understanding consumer intention to participate in online travel community and effects on consumer intention to purchase travel online and WOM: an integration of innovation diffusion theory and TAM with trust. *Comput. Hum. Behav.* 60, 97–111. doi: 10.1016/j.chb.2016. 02.038

Alvarez-Milán, A., Felix, R., Rauschnabel, P. A., and Hinsch, C. (2018). Strategic customer engagement marketing: a decision making framework. *J. Bus. Res.* 92, 61–70. doi: 10.1016/j.jbusres.2018.07.017

Amin, M., Ryu, K., Cobanoglu, C., and Nizam, A. (2021). Determinants of online hotel booking intentions: website quality, social presence, affective commitment, and e-trust. *J. Hosp. Mark. Manage.* 30, 845–870. doi: 10.1080/19368623.2021.1899095

ATM TEM (2019). Artificial intelligence and automation to increase hotel revenues by 10% and cut costs by 15%, says ATM report. WTM Global Hub. Available online at: https://hub.wtm.com/press/atm-press-releases/artificial-intelligence-and-automation-to-increase-hotel-revenues-by-10-and-cut-costs-by-15-says-atm-report/ (accessed January 16, 2019).

Baltar, F., and Brunet, I. (2012). Social research 2.0: virtual snowball sampling method using Facebook. *Internet Res.* 22, 57–74. doi: 10.1108/1066224121119 9960

Bandyopadhyay, S., and Martell, M. (2007). Does attitudinal loyalty influence behavioral loyalty? A theoretical and empirical study. *J. Retailing Consum. Serv.* 14, 35–44. doi: 10.1016/j.jretconser.2006.03.002

Best, R. J. (2013). Market-based management: Strategies for growing customer value and profitability. Boston, MA: Pearson.

Bigne, E., Chatzipanagiotou, K., and Ruiz, C. (2020). Pictorial content, sequence of conflicting online reviews and consumer decision-making: the

stimulus-organism-response model revisited. J. Bus. Res. 115, 403-416. doi: 10. 1016/j.jbusres.2019.11.031

Bobâlcă, C., Gătej, C., and Ciobanu, O. (2012). Developing a scale to measure customer loyalty. *Proc. Econ. Financ.* 3, 623–628. doi: 10.1016/S2212-5671(12) 00205-5

Botsman, R., and Rogers, R. (2011). What's Mine is Yours: How Collaborative Consumption is Changing the Way we Live, 5. London: Collins.

Bowden, J. L.-H. (2009). The process of customer engagement: a conceptual framework. J. Mark. Theory pract. 17, 63–74. doi: 10.2753/MTP1069-6679170105

Breidbach, C. F., and Brodie, R. J. (2017). Engagement platforms in the sharing economy: conceptual foundations and research directions. *J. Serv. Theory Pract.* 27, 761–777. doi: 10.1108/JSTP-04-2016-0071

Brodie, R. J., Hollebeek, L. D., Jurić, B., and Ilić, A. (2011). Customer engagement: Conceptual domain, fundamental propositions, and implications for research. *J. Serv. Res.* 14, 252–271.

Brodie, R. J., Ilic, A., Juric, B., and Hollebeek, L. (2013). Consumer engagement in a virtual brand community: an exploratory analysis. *J. Bus. Res.* 66, 105–114. doi: 10.1016/j.jbusres.2011.07.029

Calixte, K., Curran, J., and Ram, E. (2016). *Airb r b: Predicting Loyalty*. Semantic scholar. Available online at: https://www.semanticscholar.org/paper/Airb-r-b-%3A-Predicting-Loyalty-Calixte-Curran/ac961a43cecbba25cf373e1a7f19be58d0a9b13a

Carù, A., and Cova, B. (2003). Revisiting consumption experience: a more humble but complete view of the concept. *Mark. Theory* 3, 267–286. doi: 10.1177/14705931030032004

Chen, Y., Prentice, C., Weaven, S., and Hsiao, A. (2021) A systematic literature review of AI in the sharing economy. J. Glob. Sch. Mark. Sci. 32, 434–451. doi: 10.1080/21639159.2020.1808850

Cheng, M. (2016). Sharing economy: a review and agenda for future research. Int. J. Hosp. Manage. 57, 60-70. doi: 10.1016/j.ijhm.2016.06.003

Cheung, C., Lee, M., and Jin, X. (2011). "Customer engagement in an online social platform: a conceptual model and scale development," in *Proceedings of the 2011 International Conference on Information Systems* (Shanghai).

Cortese, A. (2020). Airbnb's Battle Against Local Unicorns Resumes as China's Home-Sharing Market Recovers. Available online at: https://kr-asia.com/airbnbs-battle-against-local-unicorns-resumes-as-chinas-home-sharing-market-recovers (accessed July 9, 2020).

de Oliveira Santini, F., Ladeira, W. J., Pinto, D. C., Herter, M. M., Sampaio, C. H., and Babin, B. J. (2020). Customer engagement in social media: a framework and meta-analysis. J. Acad. Mark. Sci. 48, 1211–1228. doi: 10.1007/s11747-020-00 731-5

Doney, P. M., Barry, J. M., and Abratt, R. (2007). Trust determinants and outcomes in global B2B services. *Eur. J. Mark.* 41, 1096–1116. doi: 10.1108/03090560710773363

Doud, K. (2020). *How to Improve Airbnb Renter Experience through Smart Devices*. Available online at: https://www.proper.insure/how-to-improve-airbnb-renter-experience-through-smart-devices/ (accessed February 4, 2020).

Fornell, C., and Larcker, D. F. (1981). Structural equation models with unobservable variables and measurement error: algebra and statistics. *J. Mark. Res.* 18, 382–388. doi: 10.1177/002224378101800313

Gaskin, J., and Lim, J. (2018). *Multigroup analysis, AMOS plugin*. Gaskination's StatWiki.

Grazioli, S., and Jarvenpaa, S. L. (2000). Perils of Internet fraud: an empirical investigation of deception and trust with experienced Internet consumers. *IEEE Trans. Syst. Man Cybern. A Syst. Hum.* 30, 395–410. doi: 10.1109/3468.852434

Griffin, J., and Herres, R. T. (2002). Customer Loyalty: How to Earn it, how to Keep it. San Francisco, CA: Jossey-Bass.

Grover, V. (2019). 9 Innovative AI and Robotics Ideas to Improve Customer Experience. Available online at: https://www.spiceworks.com/marketing/ customer-experience/articles/innovative-ideas-to-improve-customerexperience-with-robotics-and-ai/ (accessed December 16, 2021).

Hapsari, R. (2017). The impact of service quality, customer engagement and selected marketing constructs on airline passenger loyalty. *Int. J. Qual. Serv. Sci.* 9, 21-40. doi: 10.1108/IJQSS-07-2016-0048

Hawlitschek, F., Adam, M. T. P., Möhlmann, M., Teubner, T., Borchers, N. S., and Weinhardt, C. (2016). "Trust in the sharing economy : an experimental framework," in *Paper Presented at the The Thirty-Seventh International Conference* on Information Systems (ICIS) (Dublin: Association for Information Systems). doi: 10.5771/0042-059X-2016-1-26

Hayes, A. F. (2017). Introduction to Mediation, Moderation, And Conditional Process Analysis: A regression-Based Approach. New York, NY: Guilford publications.

Heckathorn, D. D. (2011). Comment: snowball versus respondent-driven sampling. Sociol. Methodol. 41, 355–366. doi: 10.1111/j.1467-9531.2011.01244.x

Hohenstein, J., and Jung, M. (2020). AI as a moral crumple zone: the effects of AI-mediated communication on attribution and trust. *Comput. Hum. Behav.* 106:106190. doi: 10.1016/j.chb.2019.106190

Hollebeek, L. D. (2011). Demystifying customer brand engagement: exploring the loyalty nexus. *J. Mark. Manage.* 27, 785–807. doi: 10.1080/0267257X.2010. 500132

Hossain, M. (2021). The effect of the Covid-19 on sharing economy activities. J. Clean. Prod. 280:124782. doi: 10.1016/j.jclepro.2020.124782

Hossain, M. S., Rahman, M. F., and Zhou, X. (2021). Impact of customers' interpersonal interactions in social commerce on customer relationship management performance. *J. Contemp. Mark. Sci.* 4, 161–181. doi: 10.1108/ JCMARS-12-2020-0050

IGMS (2020). *How Airbnb ID Verification Works for Hosts and Guests*. Available online at: https://www.igms.com/airbnb-id-verification/ (accessed October 21, 2020).

Islam, J. U., and Rahman, Z. (2017). The impact of online brand community characteristics on customer engagement: an application of stimulus-organism-response paradigm. *Telemat. Inform.* 34, 96–109. doi: 10.1016/j.tele.2017.01. 004

Islam, J. U., Shahid, S., Rasool, A., Rahman, Z., Khan, I., and Rather, R. A. (2020). Impact of website attributes on customer engagement in banking: a solicitation of stimulus-organism-response theory. *Int. J. Bank Mark.* 38, 1279–1303. doi: 10.1108/JJBM-12-2019-0460

Ivanov, S. H., and Webster, C. (2017). "Adoption of robots, artificial intelligence and service automation by travel, tourism and hospitality companies-a costbenefit analysis," in *Proceedings of the Prepared for the International Scientific Conference "Contemporary Tourism-Traditions and Innovations* (Sofia: Sofia University).

Jang, S. S., and Namkung, Y. (2009). Perceived quality, emotions, and behavioral intentions: application of an extended Mehrabian–Russell model to restaurants. *J. Bus. Res.* 62, 451–460. doi: 10.1016/j.jbusres.2008.01.038

Jarvenpaa, S. L., Tractinsky, N., and Saarinen, L. (1999). Consumer trust in an Internet store: a cross-cultural validation. *J. Comput. Mediat. Commun.* 5:JCMC526. doi: 10.1111/j.1083-6101.1999.tb00337.x

Kamboj, S., Sarmah, B., Gupta, S., and Dwivedi, Y. (2018). Examining branding co-creation in brand communities on social media: applying the paradigm of stimulus-organism-response. *Int. J. Inf. Manage.* 39, 169–185. doi: 10.1016/j. ijinfomgt.2017.12.001

Kim, M. J., Lee, C.-K., and Jung, T. (2020). Exploring consumer behavior in virtual reality tourism using an extended stimulus-organism-response model. *J. Travel Res.* 59, 69–89. doi: 10.1177/0047287518818915

Kosiba, J. P., Boateng, H., Okoe, A. F., and Hinson, R. (2020). Trust and customer engagement in the banking sector in Ghana. *Serv. Ind. J.* 40, 960–973. doi: 10.1080/02642069.2018.1520219

Koufaris, M., and Hampton-Sosa, W. (2004). The development of initial trust in an online company by new customers. *Inf. Manage.* 41, 377–397. doi: 10.1016/j. im.2003.08.004

Krumay, B., and Brandtweiner, R. (2010). "Are customer service offerings influencing e-loyalty? a graphical chain model approach in the austrian mobile phone service provider industry," in *Proceedings of the BLED 2010* (Bled: Association for Information Systems).

Kuo, W. (2018). China Market Research Tool. Available online at: https: //williamkuo1988.medium.com/china-market-research-tool-e612d559b649 (accessed August 17, 2018).

Lee, C. K. H. (2022). How guest-host interactions affect consumer experiences in the sharing economy: new evidence from a configurational analysis based on consumer reviews. *Decis. Support Syst.* 152:113634. doi: 10.1016/j.dss.2021.113634

Lee, D., Moon, J., Kim, Y. J., and Mun, Y. Y. (2015). Antecedents and consequences of mobile phone usability: linking simplicity and interactivity to satisfaction, trust, and brand loyalty. *Inf. Manage.* 52, 295–304. doi: 10.1016/j.im. 2014.12.001

Lemon, K. N., and Verhoef, P. C. (2016). Understanding customer experience throughout the customer journey. J. Mark. 80, 69–96. doi: 10.1509/jm.15.0420

Li, J. J., Bonn, M. A., and Ye, B. H. (2019). Hotel employee's artificial intelligence and robotics awareness and its impact on turnover intention: the moderating roles of perceived organizational support and competitive psychological climate. *Tour. Manage.* 73, 172–181. doi: 10.1016/j.tourman.2019.02.006

Li, M.-W., Teng, H.-Y., and Chen, C.-Y. (2020). Unlocking the customer engagement-brand loyalty relationship in tourism social media: the roles of brand attachment and customer trust. *J. Hosp. Tour. Manage.* 44, 184–192. doi: 10.1016/j.jhtm.2020.06.015

Libai, B., Bart, Y., Gensler, S., Hofacker, C. F., Kaplan, A., Kötterheinrich, K., et al. (2020). Brave new world? On AI and the management of customer relationships. *J. Interact. Mark.* 51, 44–56. doi: 10.1016/j.intmar.2020.04.002

Luo, Q., and Zhang, H. (2016). Building interpersonal trust in a travel-related virtual community: a case study on a Guangzhou couchsurfing community. *Tour. Manage.* 54, 107–121. doi: 10.1016/j.tourman.2015.10.003

McKnight, D. H., and Chervany, N. L. (2001). "Trust and distrust definitions: one bite at a time," in *Trust in Cyber-Societies*, eds R. Falcone, M. Singh, and Y. H. Tan (Heidelberg: Springer), 27–54. doi: 10.1007/3-540-45547-7\_3

Mehrabian, A., and Russell, J. A. (1974). The basic emotional impact of environments. *Percept. Mot. Skills* 38, 283–301. doi: 10.2466/pms.1974.38.1.283

Mellit, A., and Kalogirou, S. A. (2008). Artificial intelligence techniques for photovoltaic applications: a review. *Prog. Energy Combust. Sci.* 34, 574–632. doi: 10.1016/j.pecs.2008.01.001

Mittendorf, C. (2017). "The implications of trust in the sharing economyan empirical analysis of Uber," in *Proceedings of the 50th Hawaii International Conference on System Sciences* (Frankfurt: Goethe University Frankfurt). doi: 10. 24251/HICSS.2017.703

Nahapiet, J., and Ghoshal, S. (1998). Social capital, intellectual capital, and the organizational advantage. *Acad. Manage. Rev.* 23, 242–266. doi: 10.5465/amr. 1998.533225

Nam, K., Dutt, C. S., Chathoth, P., Daghfous, A., and Khan, M. S. (2020). The adoption of artificial intelligence and robotics in the hotel industry: prospects and challenges. *Electron. Mark.* 31, 553–574. doi: 10.1007/s12525-020-00 442-3

Narasimhan, C., Papatla, P., Jiang, B., Kopalle, P. K., Messinger, P. R., Moorthy, S., et al. (2018). Sharing economy: review of current research and future directions. *Custom. Needs Solut.* 5, 93–106. doi: 10.1007/s40547-017-0079-6

Ng, S. C., Sweeney, J. C., and Plewa, C. (2020). Customer engagement: a systematic review and future research priorities. *Australas. Mark. J.* 28, 235–252. doi: 10.1016/j.ausmj.2020.05.004

Park, S., and Tussyadiah, I. P. (2020). How guests develop trust in hosts: an investigation of trust formation in P2P accommodation. *J. Travel Res.* 59, 1402–1412. doi: 10.1177/0047287519884654

Patterson, P., Yu, T., and De Ruyter, K. (2006). "Understanding customer engagement in services," in *Proceedings of the ANZMAC 2006 conference: Advancing theory, maintaining relevance*, Brisbane, QLD, 4–6.

Pavlou, P. A. (2003). Consumer acceptance of electronic commerce: integrating trust and risk with the technology acceptance model. *Int. J. Electron. Commer.* 7, 101–134. doi: 10.1080/10864415.2003.11044275

Predictive Analytics Team (2020). *How Airbnb Uses AI to Transform the Travel Industry*. Available online at: https://www.predictiveanalytics.co.ke/blog/big-data/airbnb-artificial-intelligence/ (accessed March 16, 2020).

Prentice, C., and Nguyen, M. (2020). Engaging and retaining customers with AI and employee service. *J. Retail. Consum. Serv.* 56:102186. doi: 10.1016/j.jretconser. 2020.102186

Prentice, C., and Nguyen, M. (2021). Robotic service quality-scale development and validation. *J. Retail. Consum. Serv.* 62:102661. doi: 10.1016/j.jretconser.2021. 102661

Prentice, C., Dominique Lopes, S., and Wang, X. (2019). Emotional intelligence or artificial intelligence–an employee perspective. *J. Hosp. Mark. Manage.* 1–27.

Prentice, C., Dominique Lopes, S., and Wang, X. (2020a). Emotional intelligence or artificial intelligence-an employee perspective. *J. Hosp. Mark. Manage.* 29, 377-403. doi: 10.1080/19368623.2019.1647124

Prentice, C., Dominique Lopes, S., and Wang, X. (2020b). The impact of artificial intelligence and employee service quality on customer satisfaction and loyalty. *J. Hosp. Mark. Manage.* 29, 739–756. doi: 10.1080/19368623.2020.1722304

Prentice, C., Wang, X., and Lin, X. (2018). An organic approach to customer engagement and loyalty. *J. Comput. Inf. Syst.* 60, 326–335. doi: 10.1080/08874417. 2018.1485528

Prentice, C., Weaven, S., and Wong, I. A. (2020). Linking AI quality performance and customer engagement: the moderating effect of AI preference. *Int. J. Hosp. Manage*. 90:102629. doi: 10.1016/j.ijhm.2020.102629

Räisänen, J., Ojala, A., and Tuovinen, T. (2021). Building trust in the sharing economy: current approaches and future considerations. *J. Clean. Prod.* 279:123724. doi: 10.1016/j.jclepro.2020.123724

Ranchordás, S. (2015). Does sharing mean caring: regulating innovation in the sharing economy. *Minn. J. L. Sci. Tech.* 16:413.

Rather, R. A. (2018). Investigating the impact of customer brand identification on hospitality brand loyalty: a social identity perspective. *J. Hosp. Mark. Manage.* 27, 487–513. doi: 10.1080/19368623.2018.1404539

Rather, R. A. (2019). Consequences of consumer engagement in service marketing: an empirical exploration. J. Glob. Mark. 32, 116–135. doi: 10.1080/08911762.2018.1454995

Rather, R. A. (2020). Customer experience and engagement in tourism destinations: the experiential marketing perspective. J. Travel Tour. Mark. 37, 15–32. doi: 10.1080/10548408.2019.1686101

Rather, R. A., Hollebeek, L. D., and Islam, J. U. (2019). Tourism-based customer engagement: the construct, antecedents, and consequences. *Serv. Ind. J.* 39, 519–540. doi: 10.1080/02642069.2019.1570154

Rather, R. A., Hollebeek, L. D., and Rasoolimanesh, S. M. (2022). Firsttime versus repeat tourism customer engagement, experience, and value cocreation: an empirical investigation. *J. Travel Res.* 61, 549–564. doi: 10.1177/ 0047287521997572

Rather, R. A., Tehseen, S., and Parrey, S. H. (2018). Promoting customer brand engagement and brand loyalty through customer brand identification and value congruity. *Span. J. Mark. ESIC* 22, 319–337. doi: 10.1108/SJME-06-2018-0030

Sousa, V. D., and Rojjanasrirat, W. (2011). Translation, adaptation and validation of instruments or scales for use in cross-cultural health care research: a clear and user-friendly guideline. *J. Eval. Clin. Pract.* 17, 268–274. doi: 10.1111/j.1365-2753.2010.01434.x

State Information Center (2020). Chinese Sharing Economy Development Report 2021. Available online at: http://www.sic.gov.cn/archiver/SIC/UpFile/Files/ Default/20210219091740015763.pdf (accessed February 19, 2021).

Strub, P. J., and Priest, T. (1976). Two patterns of establishing trust: the marijuana user. Sociol. Focus 9, 399-411. doi: 10.1080/00380237.1976.10570947

Swan, J. E., Bowers, M. R., and Richardson, L. D. (1999). Customer trust in the salesperson: an integrative review and meta-analysis of the empirical literature. *J. Bus. Res.* 44, 93–107. doi: 10.1016/S0148-2963(97)00244-0

Ter Huurne, M., Ronteltap, A., Corten, R., and Buskens, V. (2017). Antecedents of trust in the sharing economy: a systematic review. *J. Consum. Behav.* 16, 485–498. doi: 10.1002/cb.1667

Van Doorn, J., Lemon, K. N., Mittal, V., Nass, S., Pick, D., Pirner, P., et al. (2010). Customer engagement behavior: theoretical foundations and research directions. *J. Serv. Res.* 13, 253–266. doi: 10.1177/1094670510375599

Verhagen, T., Meents, S., and Tan, Y.-H. (2006). Perceived risk and trust associated with purchasing at electronic marketplaces. *Eur. J. Inf. Syst.* 15, 542–555. doi: 10.1057/palgrave.ejis.3000644

Vlačić, B., Corbo, L., Silva, S. C., and Dabić, M. (2021). The evolving role of artificial intelligence in marketing: a review and research agenda. *J. Bus. Res.* 128, 187–203. doi: 10.1016/j.jbusres.2021.01.055

Wang, H., Ko, E., Woodside, A., and Yu, J. (2021). SNS marketing activities as a sustainable competitive advantage and traditional market equity. *J. Bus. Res.* 130, 378–383. doi: 10.1016/j.jbusres.2020.06.005

Watt, M., and Wu, H. (2018). Trust Mechanisms and Online Platforms: A Regulatory Response. Cambridge, MA: Harvard University.

Wirtz, J., Patterson, P. G., Kunz, W. H., Gruber, T., Lu, V. N., Paluch, S., et al. (2018). Brave new world: service robots in the frontline. *J. Serv. Manage.* 29, 907–931. doi: 10.1108/JOSM-04-2018-0119

Wixom, B. H., and Todd, P. A. (2005). A theoretical integration of user satisfaction and technology acceptance. *Inf. Syst. Res.* 16, 85–102. doi: 10.1287/ isre.1050.0042

Yap, B. W., Ramayah, T., and Shahidan, W. N. W. (2012). Satisfaction and trust on customer loyalty: a PLS approach. *Bus. Strat. Ser.* 13, 154–167. doi: 10.1108/17515631211246221