EMPIRICAL ARTICLE



Customers' psychological ownership toward the third place

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Received: 1 October 2019 / Accepted: 12 June 2020 / Published online: 23 June 2020 © Springer-Verlag GmbH Germany, part of Springer Nature 2020

Abstract

Do people feel psychological ownership toward a third place other than homes as the first place and workplaces as the second place? The present study proposes a research model integrating three characteristics of the third place including customer participation, place attachment, and psychological ownership, and tests six hypotheses derived from the research model, which is based on social identity theory and attachment theory. Communication, concentration, and self-expressiveness as characteristics of the third place have a positive influence on customer participation. Customer participation has a direct positive influence on psychological ownership as well as indirectly through place attachment.

 $\textbf{Keywords} \ \ Third \ place \cdot Psychological \ ownership \cdot Customer \ participation \cdot Place \ attachment \cdot Self-expressiveness \cdot Untact$

1 Introduction

The third place is somewhere that makes an individual feel more comfortable, pleasant, and cozy, aside from home as the first place and the workplace as the second place (Oldenburg 1989; 2001). Many researchers (Cabras and Mount 2017; Daisuke et al. 2015; Jeffres et al. 2009; Mikunda 2004) have studied the roles, usefulness, and value of the third place since Oldenburg (1989; 2001) had introduced the concept of the third place. According to Jeffres et al. (2009), about 71 percent of U.S. people have their third place. The most cited third spaces are as follows, in this order: community centers & town meetings, coffee shops, restaurants and cafés, and churches (Jeffres et al. 2009). These types of third places were grouped into four categories: eating, drinking & talking, organized activities, outside venues, and commercial venues. According to Waxman et al. (2007), the reason college students prefer the

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third place is that it provides major functions such as socializing, relaxation, eating and drinking, and getting away, and is a place to do homework.

Psychological ownership is a source of organizational competitiveness and refers to the psychological state that people perceive a target or object is theirs, although they are not the legal owners (Avey et al. 2009; Pierce et al. 2001, 2004). There are many studies regarding employees' psychological ownership for organizations (Van Dyne and Pierce 2004). According to Van Dyne and Pierce (2004), psychological ownership is a psychologically experienced phenomenon in which employees develop possessive feelings for organizations or jobs. Psychological ownership is associated with three human needs: efficacy, self-identity, and belongingness (Pierce et al. 2004; Dawkins et al. 2017). Psychological ownership enhances a sense of accountability for the object (Avey et al. 2009). Thus, psychological ownership consists of the four constructs of efficacy, self-identity, belongingness, and accountability. Psychological ownership has a positive influence on individual attitudes and behavior (Van Dyne and Pierce 2004). For example, psychological ownership is positively associated with organizational citizenship behavior, which refers to volunteering for extra roles, or discretionary behaviors beyond formal roles in organizations (Van Dyne and Pierce 2004). Many studies were limited to the relationship between employees' psychological ownership for the organization and the consequences such as job satisfaction, organizational commitment, organizational citizenship behavior, and financial performance (Dawkins et al. 2017; Van Dyne and Pierce 2004; Wagner et al. 2003).

Customers also can feel psychological ownership for the organization. According to the record of Linji who was a Chinese monk during the Tang dynasty (AD 613–907): "Just make yourself master of every situation, and wherever you stand is the true place" (Sasaki 2009, p. 186). This means that the owner spirit, or ownership, is important for people to be happy wherever they stand on the sphere. Kotler et al. (2016) argued that customers ultimately advocate products or services. Firms driving customers to advocacy from just being aware will gain sustainable competitiveness (Kotler et al. 2016). Customers can be advocators of firms or brands when they feel psychological ownership. The record of Linji and Kotler et al. (2016)'s study show that customers' psychological ownership is important to achieving an organizational competitive advantage.

Customers are one of the primary external stakeholders of an organization, whereas employees are internal stakeholders. Customers who feel psychological ownership can make bigger contributions to organizational competitiveness. They can become advocates of the organization, just like employees. Thus, it is necessary to study determinants of psychological ownership from the perspective of customers.

Do individuals feel psychological ownership for their third place? It is not easy to find studies regarding customers' psychological ownership of an organization. A special issue of the Journal of Marketing Theory and Practice in 2015 dealt with psychological ownership, which is a concept of value to the marketing field (Hulland et al. 2015). Articles regarding customer's psychological ownership were published in that special issue. Organizations can have a new strategic orientation when customers feel psychological ownership for the organization or for a third place. Firms can foster the sustainable business ecosystem with customers, which is favorable



to them (Joo and Marakhimov 2018). Customers play the role of partial employees (Mills and Morris 1986) and co-creators (Lee 2019; Lee and Jeong 2012). Customers become firm's supporters and participate in corporate social responsibility activities. Then, they have psychological ownership (Joo and Marakhimov 2018). Thus, it is important to study customers' psychological ownership of the third place as a good place provided to customers or visitors by the organizations.

The third place facilitates customer participation, and in turn, it becomes a source of place attachment. It is important to analyze the relationships among the characteristics of the third place, customer participation, place attachment, and psychological ownership because of their influence on organizational competitiveness. Thus, it is necessary to identify the antecedents of psychological ownership for the third place. The purpose of this study is to analyze the relationships between the characteristics of the third place, customer participation, place attachment, and psychological ownership. The present paper examines three characteristics of the third place: concentration, communication, and self-expressiveness. Then, significant paths linking the proposed characteristics of the third place to customers' psychological ownership are analyzed by using a structural equation modeling approach. Most people cannot live without home even in the age of untact (Lee and Lee 2020) after the COVID-19. The present study contributes to value creation of third place through customer's psychological ownership.

2 Theoretical background and hypotheses development.

2.1 Third place, customer participation, and place attachment

Mikunda (2004) extended the concept of the third place. According to Mikunda (2004), the third place can be a landmark, be designed for malling, feature a concept line, and draw people with a core attraction. The third place enables people to engage in social interaction and offers emotional support (Rosenbaum 2006). Rosenbaum (2006) classified the third place as a place-as-practical where an individual's utility is satisfied, a place-as-gathering where an individual's social needs are satisfied, and a place-as-home where an individual's emotional needs are satisfied. The third place builds communities, facilitates social communication, and enhances quality of life in communities (Jeffres et al. 2009).

Customer participation in the service industry is associated with a customer's ability to affect service procedures or the service itself, through the service experience (Mills and Morris 1986). The customer is an input element of the service process, and plays the partial role of employee because of the inseparable feature of the service from its operations (Mills and Morris 1986). The customer is a co-creator of value (Payne et al. 2008; Palma et al. 2019) and is also a co-producer of knowledge for organizational innovation (Blazevie and Lievens 2008). In the era of ecosystemoriented competition, innovation through customers' participation and collaboration is important in order to co-create value and achieve competitive advantage (Lee and Lim 2018, p. 93). Customer participation has an impact on organizational



productivity and competitive advantage (Lovelock and Young 1979; Prahalad and Ramaswamy 2000).

People have a place attachment to meaningful places where affective and symbolic relations are formulated (Williams and Vaske 2003). Place attachment is defined as the emotional bond between an individual and a place (Altman and Low 1992). Place attachment generally refers to the affective and psychological bond between people and places due to their frequent visiting experiences (Hidalgo and Hernandez 2001; Woosnam et al. 2018). Thus, place attachment results from repeated visits to, and experiences with, a specific place (Gustafson 2001). According to Williams and Vaske (2003), place attachment is divided into two dimensions: place identity and place dependence. Place identity is defined as the identification of an individual with a place, which results in an emotional bond and positive feelings toward it (Kyle et al. 2004; Proshansky et al. 1983; Ramkissoon et al. 2013; Woosnam et al. 2018), whereas place dependence refers to a functional attachment representing how well a place supports individual needs (Stokols and Shumaker 1981; Woosnam et al. 2018).

Some studies regarding environmental psychology which examines transactions between individuals and their physical settings or surroundings have dealt with the relationship between a third place and place attachment (Gifford 2014). No studies were found, however, on what kinds of the characteristics of the third place lead to psychological ownership through customer participation and place attachment.

2.2 Psychological ownership

People experience psychological ownership when they perceive that they can control an object or a target, or have an influence on it, although its formal and legal ownership does not belong to them. According to Pierce et al. (2001), psychological ownership comes from three routes: controlling the target, coming to immediately know it, and investing the self in it. Avey et al. (2009) argued that the four dimensions of psychological ownership consist of self-efficacy, accountability, belongingness, and self-identity.

Psychological ownership influences organizational competitiveness (Brown 1989), organizational commitment, job satisfaction, and organizational citizenship (Avey et al. 2009; Van Dyne and Pierce 2004). A few studies have provided evidence that customers of an organization develop psychological ownership (Asatryan and Oh 2008; Joo and Marakhimov 2018). Karahanna et al. (2015)'s study regarding the relationship between psychological ownership and the use of social media suggests that psychological ownership is motivated by the need for efficacy, the need to have a place, and the need for self-identity.

2.3 Research model and hypotheses development

The third place has characteristics of comfort, openness, interactivity, playfulness, and diversity (Mikunda 2004; Oldenburg, 1989). Oldenburg (1989) suggested eight characteristics of third places: being neutral ground; being a leveler; allowing



conversation; providing accessibility and accommodation; having regular patrons, a low profile, a playful mood; and being a home away from home.

The third place provides functions for studying and performing jobs as if it is a personalized and dedicated workplace. For example, libraries as a third place provide an environment for study and concentration (Waxman et al. 2007). Spaces that are physically and psychologically comfortable impact people's learning experiences (Miller 2009). The third place becomes a private space for restoring one's self (Sugiyama et al., 2015). Creating an environment conducive to concentration, and facilitating immersion in performing works are critical characteristics of the third place. Thus, the present paper proposes that providing a place to concentrate is a characteristic of the third place.

According to Oldenburg (1989), one of the main activities in the third place is conversation with others, in which rules of conversation tend to exist. People find and share common interests, and communicate with each other in the third place. The third place is also a space for socialization (Waxman et al. 2007). Being a place to communicate socially with people is an important feature of the third place (Sugiyama et al. 2015). The third place is a place for meetings, conversation, and communication. Thus, the present paper proposes that providing a place to communicate is a characteristic of the third place.

Places that generate feelings that are congruent with an individual's identity will become attractive to that person. People frequently visit places that are congruent with their self-image, self-concept, and social values. When people visit a place aimed at achieving their social values, Sugiyama et al. (2015) defined such a place as a meaning-focused type of third place. One of the features of the third place is being a venue for self-expressiveness. This refers to the degree to which a place represents personal identity, a self-image, a personal lifestyle, and social values. Sirgy et al. (2016) defined self-expressiveness as the degree to which people think their activities are important components of their self-concept. The third place becomes an appropriate space for representing self-expressiveness because the third place reveals one's own personal style, reflects a life style, and provides a sense of unity between personal identity and place identity. So, another characteristic of the third place is being a venue for self-expressiveness. The present paper suggests that characteristics of the third place include being a place for concentration, communication, and self-expressiveness.

Characteristics of the third place are associated with customer participation. Customer participation in the third place causes feelings of attachment and psychological ownership. Customers who proactively communicate and cooperate by providing feedback and suggestions feel a stronger psychological ownership resulting from place attachment and compassion toward the third place. The more actively customers participate, the more likely they are to feel psychological ownership toward the third place. An empirical study by Joo and Marakhimov (2018) regarding psychological ownership toward Facebook shows that customer participation positively influences psychological ownership. Place attachment is positively associated with psychological ownership. Figure 1 shows the research model integrating the characteristics of the third place, customer participation, place attachment, and psychological ownership.



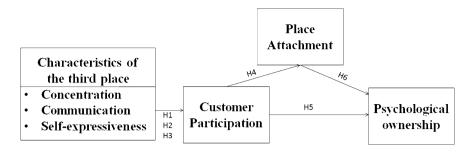


Fig. 1 Research model

According to oriental philosophy (for example, the four sprouts of human nature), compassion emerges from the feeling of commiseration or concern for others, and from empathy. Empathy is described as a concept "that is more other-focused than self-focused, including feelings of sympathy, compassion, tenderness, and the like" (Goetz et al. 2010, p. 351). Goetz et al. (2010) argues that "empathy clearly is involved in the elicitation and experience of compassion, but compassion does not reduce to an empathic state of mirrored distress, fear, or sadness" (Goetz et al. 2010, p. 365). On the other hand, according to Stevens and Woodruff (2018), compassion includes three domains: affective empathy, cognitive understanding of how others feel difficulties, and a desire to help them. The third concept of compassion differentiates it from empathy (Stevens and Woodruff 2018, p. 7). People who feel a psychologically higher ownership toward a target generate greater compassion. Thus, compassion is a component of psychological ownership.

Customers who participate proactively in a business activity or the third party empathize with a feeling of commiseration and facilitate the emergence of compassion so that they feel psychological ownership toward the third place or the business. In the present paper, psychological ownership consists of a sense of mine which is associated with a general conceptual definition (Avey et al. 2009; Pierce et al. 2001) described in the introductory section, and a sense of compassion.

2.3.1 Characteristics of the third place and customer participation

Claycomb et al. (2001) classified the levels of customer participation as low, moderate, or high. At a low level, customer participation refers to service from the third place by simply visiting the third place. At a moderate level of customer participation, customers provide feedback and suggestions to the third place. Customer participation at a high level contributes to the co-creation of value by assisting the third place or helping its visitors. Customer participation at a low level is passive, whereas customers at moderate and high levels actively participate. The level of customer participation exists along a continuum ranging from passive at one end, where customers are simple observers or simply visiting third places for transactions or meeting, to active at the other, where they affect the business performance as co-creators of the experience (Pine and Gilmore 1998).



In the present study, the active customer participation is classified into feedback on and cooperation with the third place as described in Table 1.

Bitner (1992) proposed servicescapes as a conceptual framework that describes the impact of physical surroundings on customers' behavior in service organizations. Servicescapes include ambient conditions (such as temperature, music, and odor), space and function (such as layouts and furnishings), and signs and artifacts (such as signage and décor) (Bitner, 1992). According to Bitner (1992), servicescapes are important for eliciting participation in the third place. Servicescapes influence customers' behavior in which active customer participation is important (Bitner 1992; Clarke and Schmidt 1995). Social, emotional, and experiential characteristics of the third place are also significant for encouraging people's participation.

According to Oldenburg (1989), third places encourage civic engagement so that they contribute to the well-being of individuals (Williams and Hipp 2019). From among the eight characteristics of the third place, Oldenburg (1989) suggested that conversation and communication encourage people's participation. Thus, the communication characteristic of the third place is associated with customer participation.

Recently, the third place has provided an environment conducive to work or study, rather than home, and it improves one's concentration level when studying or working there. Many coworkers who simply work alone, or together if necessary, share a co-working space without much interaction (Brown 2017). Some co-working spaces provide a flexible and right mix of autonomy and interaction for young entrepreneurs and freelance workers or digital nomads (Brown 2017). The third place becomes an alternative to a co-working space because it allows visitors to not only do their autonomous work alone but also to collaborate through interactions. The concentration characteristic of the third place leads to customer participation.

The symbolic self-completion theory suggests that people who have an incomplete self-definition tend to complete their identity by acquiring and demonstrating symbols related to themselves (Wicklund and Gollwitzer 1981). Symbolic expressions of the self refer to core values or individuality (Dawkins et al. 2017). Consumers prefer brands offering a closer fit between personal identity and brand identity known as self-congruence. Space marketing or experiential marketing (Schmitt 1999) stresses the space design helping to satisfy a customer's desire for self-expressiveness. Experiential marketing aims to create holistic experiences: to sense (sensory experience), to feel (affective experience), to think (creative cognitive experience), to act (physical experience, behaviors, and lifestyles), and to relate (social identity experience). Social identity experience covering the four other experiences is closely related to self-expressiveness, because it is a key component to fostering social identity. People think that the third place represents a symbolic expression of the self. For example, Howard Schultz (chairman and former CEO of Starbucks) argued that Starbucks is a cozy home away from home as a third place (Rice 2009) and sells not coffee but experiences to customers. The more that customers perceive the characteristics of self-expressiveness in the third place as positive, the more they are likely to proactively participate in the third place.

The characteristics of concentration, communication, and self-expressiveness lead to customers' active participation in the third place. The following three



Table 1 Operational definition			
Category	Construct	Definition	Source
Characteristics of the third place (TP)	(TP) Concentration (CON)	The degree to which an individual can concentrate on his or her tasks in the third place	Daisuke et al. (2015), Jeffres et al. (2009), Luo et al. (2016), Waxman et al. (2007)
	Communication (COM)	The degree to which an individual feels that the third place is comfortable when he or she has a conversation with others and communicates socially with them	Oldenburg (1989), Sugiyama et al. (2015)
	Self-expressiveness (SEL)	The degree to which an individual feels that the third place reflects his or her personal style and life style, and which is congruent with his or her self-image or self-concept	Sirgy et al. (2016)
Customer participation (CP)	Feedback (FED)	The degree to which an individual attentively communicates with managers or employees of the third place by providing feedback and suggestions	Joo and Marakhimov (2018), Wu (2011)
	Cooperation (COO)	The degree to which an individual engages in voluntary activities that are helpful or beneficial to the third place	Joo and Marakhimov (2018)
Place attachment (PAT)	Place attachment (PAT)	The degree to which an individual has an emotional Altman and Low (1992), Luo et a. (2016) bond between the place and him or herself, including place dependence and place identity	Altman and Low (1992), Luo et a. (2016)
Psychological ownership (PO)	Sense of mine (SOM)	The degree to which a customer has a sense of accountability or control over the third place, and feels a sense of ownership toward the third place as if it is his (or her) home or workplace	Avey et al. (2009), Joo and Marakhimov (2018)
	Sense of compassion (SOC)	Sense of compassion (SOC) The degree to which a customer experiences concern or pleasure toward the failure or success of the third place, and to which the customer has feelings of caring toward the third place	Asatryan and Oh (2008), Avey et al. (2009), Joo and Marakhimov (2018)



hypotheses regarding relationships between the characteristics of the third place and customer participation are therefore proposed.

Hypothesis 1 (H1): The concentration characteristic of the third place has a positive influence on customer participation.

Hypothesis 2 (H2): The communication characteristic of the third place has a positive influence on customer participation.

Hypothesis 3 (H3): The self-expressiveness characteristic of the third place has a positive influence on customer participation.

2.3.2 Customer participation, place attachment, and psychological ownership

Active participation in the third place including customers' suggestions and feedback as well as cooperating efforts with the third place is positively associated with attachment to the place. According to a study by Xu and Zhang (2016) regarding antecedents and outcomes of place attachment, customers' involvement has a positive influence on place attachment. They also argued that a high level of tourist involvement facilitates the formation of attachment to tour destinations. Studies have identified how tourists' continuous participation in a tour destination influences their attachment to that place (Hou et al. 2005; Lee and Shen 2013). According to Lee and Shen (2013), customers' participation in leisure activities is positively associated with their attachment to a place. According to Luo et al. (2016), activity involvement in the third place positively influences place attachment. Subsequently, place attachment has a positive effect on a visitor's loyalty toward the third place. Place attachment is associated with an individuals' participation, because place attachment stems from the experiences therein. Frequent visitation increases place dependence; therefore, repeated visitations due to place dependence improve place identity (Clarke et al. 2018; Vaske and Kobrin 2001). There is a positive relationship between customer participation and place attachment. Thus, the following hypothesis regarding the relationship between customers' participation and their attachment to the third place is proposed.

Hypothesis 4 (H4): Customer participation has a positive influence on place attachment.

Some studies have identified a positive relationship between customers' participation in offline and online business activities and their psychological ownership. Asatryan and Oh (2008) analyzed antecedents and consequences of psychological ownership by using data collected from customers of university restaurants. Their study found that customer participation and perceived control, and their sense of belonging, are determinants of psychological ownership (Asatryan and Oh 2008). Joo and Marakhimov (2018) proposed a research model integrating the organizational socialization of customers, customer participation, and psychological ownership,



and suggested a positive relation between customer participation and psychological ownership of Facebook. Their empirical research, using data from 397 Facebook users, showed that psychological ownership plays a mediating role between customers' participation at the individual firm level and their participation in the business ecosystem via word-of-mouth and boycott intention as citizenship behaviors. Thus, the following hypothesis is proposed.

Hypothesis 5 (H5): Customer participation has a positive influence on psychological ownership.

According to Shu and Peck (2011), feelings of attachment to a place are connected to psychological ownership. Some studies have suggested that psychological ownership is positively associated with aspects of attachment such as giving a higher valuation to customers (Baxter et al. 2015; Reb and Connolly 2007). Place attachment provides various psychological benefits such as emotional and cognitive restoration, escape from daily stressors, and social capital (Billig 2006; Hartig et al. 2001; Scannell and Gifford 2017). Belongingness as a psychological benefit comes from place attachment (Billig 2006; Scannell and Gifford 2017). The more attachment that customers have to a third place, the more they feel a sense of ownership. Thus, the following hypothesis is proposed.

Hypothesis 6 (H6): Place attachment has a positive influence on psychological ownership.

3 Methodology: measurement and sampling design

Figure 2 shows the procedure for measurement and sampling. Questionnaire items for each construct shown in Table 1 were developed and adapted from extant studies, and were then reviewed by three experts in the areas of tourism, marketing, and human resources who work at Dongguk University in South Korea. Pretesting of the questionnaire to determine if it worked correctly was conducted by using Google Drive and the KakaoTalk mobile messenger service. Feedback through KakaoTalk from respondents was helpful in revising the questionnaire items. Measurement scales for a total of eight constructs with 36 question items were completed for the final survey, shown in Table 2. Seven constructs were measured using reflective scales, while cooperation was measured using a formative construct. All question items in Table 2 were measured on a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree). The questionnaire was written in Korean and translated into English after conducting the survey in order to write the present paper.

Two assistants for this research visited 16 locations, including coffee shops, restaurants, bars, and libraries, located in three metropolitan areas (Seoul, Pusan, and Gwangju) and two provinces (Gyeonggi and Gyeongbuk) to collect data through a face-to-face survey. The survey was conducted for about four months from October



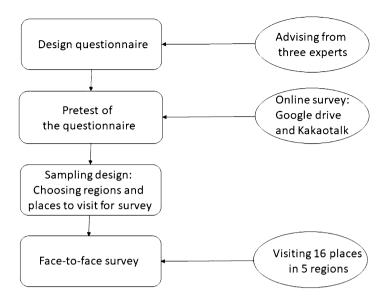


Fig. 2 Procedure for the sampling design

18, 2017, to February 20, 2018. A valid sample of 562 respondents was collected and used for analysis.

4 Analysis

SPSS Statistics (version 23) and Smart PLS (version 3.2.7, Ringle et al. 2015) were employed to analyze the data. Table 3 shows the demographic characteristics of respondents. Almost 53% of the 562 respondents were female, and more than 69% were aged 20–39. 52% had used their third place for more than three years (Question: how many years have you been visiting the third place?). Nearly 37% cited a coffee shop as their third place, and just over 28% identified a bar as their third place (Question: where is your third place? 1. Coffee shops; 2. Libraries; 3. Cafes; 4. Restaurants; 5. Other [please write down your third place]).

4.1 Common method bias

Common method bias (CMB) is an error caused by the measurement method used in a structural equation modeling study in a data gathering process (Kock 2015). To avoid CMB, the total variance of the unrotated first factor should be less than 50%, using a Harman single factor test that considers all items in exploratory factor analysis (Podsakoff et al. 2003). The first factor in this study explains 34.19% of the total variance. Thus, the possibility of CMB is low. Another approach to test CMB is to use a variance inflation factor (VIF). A structural equation model contaminated with



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Table 2 Measurement items			
Construct	Code	Items	References
Characteristic of the third place: Concentration (CON)	CONI	[] as a third place is where I can efficiently do what I want	Self-developed
	CON2	[] as a third place is where I can do what I want without interruption	
	CON3	[] as a third place is where I can do what I want without being noticed	
	CON4	[] as a third place is where I can freely do what I want	
	CONS	[] as a third place is where I can comfortably do what I want	
Characteristic of the third place: Communication (COM)	COMI	[] as a third place is where I can freely have a conversation	Self-developed
	COM2	[] as a third place is where I can feel comfortable having a conversation with others	
	сомз	[] as a third place is where I can pleasantly have a conversation with others	
	COM4	[] as a third place is a great communication space	
Characteristic of the third place: self-expressiveness	SEL1	The third place matches my personal style well	Luo et al. (2016), Sirgy et al. (2016)
(SEL)	SEL2	The experience of the third place reflects my life style well	
	SEL3	I am pleased to show others that I am in the third place	
	SEL4	The third place is a space to express oneself well	



Table 2 (continued)			
Construct	Code	Items Ra	References
Customer Participation: Feedback (FED)	FED1	When I feel some displeasure in the third place, I am Hwilling to let managers or employees know it	Hau and Thuy (2016), Joo and Marakhimov (2018), Revilla-Camacho et al. (2015), Wu
	FED2	When I find some problems in the third place, I am willing to let managers or employees know about them	(2011)
	FED3	I am willing to let managers or employees know the ways that can improve services in the third place	
	FED4	I am willing to make suggestions to managers or employees if I have a useful idea on how to improve services in the third place	
Customer Participation: Cooperation (COO)	C001	I am willing to help other people, or those who need my assistance in the third place	
	C002	I am willing to clean up the stuff that I used in the third place, although it is not my responsibility	
	CO03	I am willing to give the third place my full cooperation	
Place Attachment (PAT)	PAT1	I feel the third place is a special place	
	PAT2	I feel that the third place has a lot of meaning for me Pr	Prayag and Ryan (2012), Ramkissoon et al. (2013)
	PAT3	The third place gives me a special feeling that no other place can provide	
	PAT4	I feel a strong sense of unity with the third place	
	PAT5	I feel a strong emotional bond with the third place	
	PAT6	I think there is no place like the third place	



Table 2 (continued)			
Construct	Code Items	Items	References
Psychological Ownership: Sense of Mine (SOM)	SOM1	SOM1 I have the feeling that the third place is mine while I Brown and Zhu (2016), Joo and Marakhimov stay in there	Brown and Zhu (2016), Joo and Marakhimov (2018), Lee and Chen (2017), Zhao et al. (2016)
	SOM2	I have the feeling that the third place is ours while I stay there with friends	
	SOM3	I have a sense of accountability, as if I am an owner of the third place, while I stay in there	
	SOM4	SOM4 I have a sense of autonomy, as if I am an owner of the third place, while I stay in there	
	SOM5	SOM5 I have a sense of control over the situations in the third place while I stay in there	
	SOM6	SOM6 I have a sense of ownership toward the third place as if it is like home or a workplace	
Psychological Ownership: Sense of Compassion (SOC)	SOC1	SOC1 If the third place faces serious problems, I will be very concerned about them, as if they are mine	Joo and Marakhimov (2018)
	SOC2	SOC2 If someone criticizes the third place, I feel bad as if I am being criticized	
	SOC3 SOC4	SOC3 I feel pleased when someone praises the third place SOC4 I feel that the third place's success is my success	



Table 3 Respondent demographics

Variable	Categories	Frequency	Percent
Gender	Male	266	47.3
	Female	296	52.7
Age	Under 20	15	2.7
	20-29	253	45.0
	30–39	136	24.2
	40-49	81	14.4
	50-59	58	10.3
	Over 60	19	3.4
Experience (time span of respondent's	Under 2 years	207	36.8
visits to the third place)	2 years	60	10.7
	3–4 years	158	28.1
	5–6 years	13	2.3
	Over 7 years	123	21.9
Type of third place	Coffee shop	207	36.9
	Library	60	10.7
	Bar	158	28.1
	Restaurant	13	2.3
	Other (church, PC-bang ^a , park, etc.)	124	22.1

^aPC-bang is a space or room providing game-playing and Internet services (Kim and Choi 2003; Huhh 2008). Thirteen respondents cited a PC-bang as their third place

a common method bias includes a latent variable with a VIF value greater than 3.3 (Kock 2015). VIFs for all latent variables in this study ranged from 1.000 to 1.453. Thus, the research model has no CMB.

4.2 Reliability and validity

Table 4 shows the path loadings connecting each construct to the indicator variables, VIF, Cronbach's alpha, CR (Composite Reliability), AVE (Average Variance Extracted), and the type of construct. VIF is used to check for the problem of multicollinearity. A VIF threshold may exceed 5 in variance-based SEM including PLS (Partial Least Square) (Garson, 2016; Kock and Lynn 2012). However, a VIF threshold of 3.3 is recommended for each of the formative indicators of an underlying construct (Kock and Lynn 2012). Inner VIF values for all latent variables were less than 1.50, and outer VIF values for the formative latent variable of cooperation were less than 2.00, as shown in Table 4. Thus, there are no multicollinearity problems. The indicator reliability of the reflective measurement models was acceptable because the outer model loadings for all reflective constructs were greater than 0.7 (Hair et al. 2014, p. 103; Henseler et al. 2012). Multicollinearity among the indicators for formative factor cooperation is not



Table 4 Internal consistency and convergent validity

Variable	Item	Indicator loading (weight)	VIF	Cronbach's alpha	Composite reli-	AVE	Type of construct
					ability		
Concentration place	CON1	0.795 (0.287)	1.802	0.863	0.901	0.645	Reflective
	CON2	0.758 (0.205)	1.936				
	CON3	0.810 (0.198)	2.252				
	CON4	0.836 (0.292)	2.327				
	CON5	0.812 (0.261)	1.996				
Communication place	COM1	0.888 (0.223)	3.638	0.922	0.944	0.808	Reflective
	COM2	0.903 (0.241)	4.045				
	COM3	0.925 (0.308)	3.719				
	COM4	0.879 (0.340)	2.333				
Self-expressiveness place	SEL1	0.824 (0.257)	2.224	0.853	0.900	0.693	Reflective
	SEL2	0.846 (0.286)	2.339				
	SEL3	0.796 (0.314)	1.658				
	SEL4	0.862 (0.344)	2.049				
Feedback	FED1	0.797 (0.267)	2.394	0.865	0.907	0.709	Reflective
	FED2	0.869 (0.292)	2.975				
	FED3	0.875 (0.313)	2.752				
	FED4	0.831 (0.312)	2.322				
Cooperation	C001	(0.779)	1.437	N/A	N/A	N/A	Formative
	C002	(0.652)	1.182				
	CO03	(0.883)	1.552				



Table 4 (continued)

lable 4 (continued)							
Variable	Item	Indicator loading (weight)	VIF	Cronbach's alpha	Composite reliability	AVE	Type of construct
Place attachment	PAT1	0.817 (0.209)	2.390	0.890	0.917	0.648	Reflective
	PAT2	0.854 (0.227)	2.711				
	PAT3	0.736 (0.182)	1.750				
	PAT4	0.851 (0.225)	2.820				
	PAT5	0.828 (0.210)	2.638				
	PAT6	0.734 (0.186)	1.672				
Sense of mine	SOM1	0.801 (0.196)	2.486	968.0	0.920	0.659	Reflective
	SOM2	0.790 (0.195)	2.392				
	SOM3	0.863 (0.218)	2.772				
	SOM4	0.857 (0.212)	2.764				
	SOM5	0.771 (0.191)	1.985				
	SOM6	0.782 (0.220)	1.851				
Sense of compassion	SOC1	0.808 (0.295)	1.769	0.863	0.907	0.708	Reflective
	SOC2	0.864 (0.289)	2.394				
	SOC3	0.846 (0.295)	2.181				
	SOC4	0.847 (0.310)	2.030				

N/A not applicable



problematic because the VIFs were less than 4.0 (Hair et al. 2014). Every Cronbach's alpha of the reflective constructs exceeded the 0.7 threshold for internal consistency (Nunnally and Bernstein 1994). CR for all reflective constructs also exceeded the cutoff value of 0.7 (Henseler et al. 2012). Thus, reliability and convergent validity of the reflective model were satisfactory (Fornell and Larcker 1981). According to Hair et al. (2014), there is no clear criterion on whether to measure a construct reflectively or formatively. Reflective indicators are caused by a latent variable, whereas formative indicators cause a latent variable. Formative indicators are measures that form or contribute to an underlying construct. Chin (1998a, b) suggested this question: "Is it necessarily true that if one of the items (assuming all are coded in the same direction) were to suddenly change in a particular direction, the others will change in a similar manner?" If the answer is no, the construct is formative. A cooperation effort that is representative of customer participation in the third place was composed of three measurements as shown in Table 2. All indicator weights for the cooperation construct as a formative factor were significant as shown in Table 4.

Table 5 shows inter-construct correlations and the square root of the AVE for each construct. Values in the diagonal cells indicate the square root of the AVE. The square root of the AVE for each reflective construct is higher than its correlations with other constructs. According to the Fornell and Larcker criterion, the discriminant validity is satisfactory (Fornell and Larcker 1981).

The HTMT (Heterotrait–Monotrait Ratio) was suggested as a criterion of discriminant validity by Henseler et al. (2015). Discriminant validity is satisfactory for a given pair of reflective constructs, if the HTMT value is below 0.90 (Garson 2016). Gold et al. (2001) and Teo et al. (2008) also recommended the 0.90 threshold, although Kline (2011) used a more stringent cutoff of 0.85. All values in Table 6 are less than 0.85. Thus, discriminant validity was satisfied.

In general, when using PLS, SRMR (Standardized Root Mean Square Residual) is used as the measure for approximate fit of the structural model (Garson 2016). The structural model has good fit because the SRMR value of 0.084 is close to the cutoff of 0.08 (Hu and Bentler 1999).

Although SRMR indicates an acceptable fit when it produces a value smaller than 0.10, it can be interpreted as an indicator of good fit when it produces a

Table 5 Discriminant validity: Fornell–Larcker criterion

Construct	CON	COM	SEL	FED	PAT	SOM	SOC
CON	0.803						
COM	0.273	0.899					
SEL	0.438	0.327	0.832				
FED	0.234	0.191	0.343	0.842			
PAT	0.329	0.195	0.613	0.489	0.805		
SOM	0.385	0.225	0.564	0.569	0.703	0.812	
SOC	0.224	0.154	0.473	0.492	0.692	0.734	0.842

The square roots of AVE for the constructs are the bold values in the diagonal cells



Table 6	Discriminant validity:
Heteroti	rait-Monotrait ratio
(HTMT)

Construct	CON	COM	SEL	FED	PAT	SOM	SOC
COM	0.300						
SEL	0.504	0.361					
FED	0.257	0.205	0.389				
PAT	0.367	0.206	0.694	0.564			
SOM	0.430	0.235	0.640	0.629	0.783		
SOC	0.256	0.162	0.546	0.558	0.791	0.831	

value lower than 0.05 (Kline 2011; Hu and Bentler 1999). One of the reasons for preferring the SRMR index in studies is its relative independence from sample size.

4.3 Hypothesis test

Figure 3 includes the two second-order constructs of customer participation and psychological ownership. Customer participation as a second-order construct contains two indicators of its first-order subconstructs of customer feedback and cooperation. Psychological ownership as another second-order construct contains two indicators of its first-order latent variables including sense of mine and sense of compassion. All path coefficients between first-order latent variables and second-order constructs that indicate the loadings of first-order constructs on the second-order constructs exceeded 0.7, as shown in Fig. 3.

Path analysis using SmartPLS (Ringle et al. 2015) was used to test the six hypotheses. A bootstrap with 1,000 subsamples and a one-tailed test were performed. As

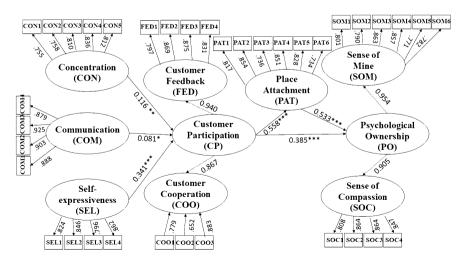


Fig. 3 PLS-SEM results. *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.001, ****customer participation (CP) and psychological ownership (PO) are second-order latent variables



Hypothesis	Path	Path coefficient	SD	T statistics	p	Result
H1	CON→CP	0.116	0.045	2.545	0.006 (**)	Supported
H2	$COM \rightarrow CP$	0.081	0.044	1.845	0.033 (*)	Supported
Н3	$SEL \rightarrow CP$	0.341	0.047	7.198	0.000 (***)	Supported
H4	$CP \rightarrow PAT$	0.558	0.035	15.959	0.000 (***)	Supported
H5	$CP \rightarrow PO$	0.385	0.038	10.048	0.000 (***)	Supported
Н6	$PAT \rightarrow PO$	0.533	0.037	14.298	0.000 (***)	Supported

Table 7 Path coefficients and results of hypothesis testing

CON concentration; COM communication; SEL self-expressiveness; CP customer participation; PAT place attachment; PO psychological ownership; SD standard deviation

shown in Table 7, all hypotheses were supported. Hypothesis, H1 was supported at the significance level of 0.01, H2 was supported at the significance level of 0.05, and H3 to H6 were supported at the significance level of 0.01.

R-square, known as the coefficient of determination, is measured by the variance explained through the model (Garson 2016). Chin (1998a, b) classified the level of explanatory power as substantial at a threshold of 0.67, for a moderate level, a cutoff of 0.33, and for a weak level, a cutoff of 0.19 (Chin 1998a, b; Garson 2016). Table 8 shows the R-square with the t-value and p-value. All R-squares exceeded the 0.19 cutoff value. In particular, the two latent variables of customer participation and place attachment explain 66% of the variance in psychological ownership as an endogenous variable.

Customer participation and place attachment are mediating variables between characteristic variables of the third place (CON, COM, and SEL) on the one hand and psychological ownership on the other, as shown in Table 9. According to Hair et al. (2017), a mediating variable is complementary partial mediation if both the indirect effect and the direct effect are significant and the product of the indirect effect and direct effect is positive. The strength of mediation is measured with the

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	R-square	t value	p value	
СР	0.194	5.835	0.000	
PAT	0.312	8.007	0.000	
PO	0.661	23.666	0.000	

Table 9 Indirect effects

Mediation path	Indirect effect		Total eff	Total effect	
	effect	p value	Effect	p value	
$CON \rightarrow CP \rightarrow PO$	0.079	0.006	0.079	0.006	
$COM \rightarrow CP \rightarrow PO$	0.055	0.033	0.055	0.033	
$SEL \! \to \! CP \! \to \! PO$	0.232	0.000	0.232	0.000	
CP→PO	0.297	0.000	0.683	0.000	



^{*}p<0.05, **p<0.01, ***p<0.001

variance accounted for (VAF) method (Hair et al. 2014). Partial mediation is demonstrated when the VAF exceeds 0.20 and is less than 0.80. Place attachment plays the role of complementary partial mediation between customer participation and psychological ownership. P-value of Sobel test for the place attachment as a mediator is less than 0.001.

5 Discussion

What are the determinants of psychological ownership toward the third place? The antecedents of psychological ownership include customer participation and place attachment. Proactive customer participation (including feedback and cooperation) directly impacts psychological ownership, and has an indirect effect on it through place attachment as a mediating variable. According to Fuchs et al. (2010), customers who participate in T-shirt design are more likely to experience psychological ownership for the product, even without buying it. The result of testing the hypothesis regarding customer participation and psychological ownership (H5) is supported by previous studies (Asatryan and Oh 2008; Joo 2018; Joo and Marakhimov 2018). Customer participation plays a significant role as a mediating variable between the characteristics of the third place and psychological ownership. Extant studies regarding place attachment argue that repeated visitation to a place, as well as its physical and symbolic features, enhances a sense of unity between the place and personal identity (Anton and Lawrence 2016; Clarke et al. 2018; Vaske and Kobrin 2001). The result of testing the fourth hypothesis (H4), that the more customers participate in the third place the greater the place attachment, is consistent with place attachment theory.

The result of the present research indicates that three characteristics of the third place (concentration, communication, and self-expressiveness) facilitate proactive customer participation. Concentration, communication, and self-expressiveness trigger psychological ownership through customer participation and place attachment. To elicit proactive customer participation, the third place needs to play the roles of conversation and communication for customers. According to Oldenburg (1989), the main activity of the third place is conversation. Jeffres et al. (2013) argued that the climate for communication in the third place is important to customers. Servicescape theory that a facility's exteriors & interiors and ambient conditions as a physical environment in the third place affect customer's service experience, is consistent with the finding that the communication characteristic of the third place has a positive influence on customer participation. The third place must also be a free and comfortable space allowing customers to concentrate on their work without being interrupted by others. Furthermore, customers have to experience self-expressiveness in the third place. The experience of self-expressiveness is optimized as customers come to feel that the third place matches their personal style, reflects their life style, and expresses their self-concept.

According to Jensen and Aaltonen (2013), offline retail stores have to be theaters in order to exist in the era of the e-commerce revolution, because online stores beat out offline stores in terms of transaction costs. The concept of the theater is



associated with the optimization of customers' emotional responses or experiences. It is necessary for offline stores to inspire customers to pursue their dreams, because the stores have to perform the role of culture space beyond a simple transaction place. The characteristics of the third place such as concentration and self-expressiveness contribute to optimizing customer experiences through their proactive participation. According to social identity theory (Tajfel and Turner 1986; Turner and Oakes 1986), people prefer places or objects congruent with their own self-concept or self-image (Pagani et al. 2011). The study by Pagani et al. (2011) regarding the influence of identity on active participation in a social networking site (SNS) argued that both personal identity and social identity are positively associated with active use of an SNS. Thus, the analysis result showing that a place enabling self-expressiveness drives customers' proactive participation in the third place is supported by social identity theory.

The communication characteristic of the third place has an influence on proactive customer participation at the significance level of 0.05. Concentration and self-expressiveness affect proactive customer participation in the third place at significant levels of 0.01 and 0.001, respectively. Why does the effect on the proactive customer participation that impacts psychological ownership vary depending on the characteristics of the third place? A feature of a social place for communication is that it not only encourages customers to make repeated visits, but also induces proactive customer participation. According to Sugiyama et al. (2015), there are communication places and private places, where the latter refers to a personalized type of third place. Private places indicate that customers are spending time to restore themselves. The private place is closely related to the concentration characteristic beyond that of communicating socially with other people.

According to Rosenbaum (2006), the third place satisfies customers with physical, social, and emotional needs. The characteristics of concentration and self-expressiveness are closely related to emotional needs, while communication satisfies customers with social needs. Customers feel a sense of ownership in a third place that satisfies their emotional needs.

Thus, customers participate proactively in the third place and have a sense of psychological ownership when their experience enhances concentration and self-expressiveness. A study by Griffiths and Gilly (2012) on customer territorial behaviors using the third place as an extension of the workplace or home supports the result of the present study. According to Griffiths and Gilly (2012), territorial behaviors are associated with attempts to create a space to match an individual's preferences, and customers who embrace the third place as primary territory have a sense of ownership and territorial control.

It is necessary to pay attention to total effects through mediation paths linking the three characteristics of the third place to psychological ownership as shown in Table 9. The total effects of concentration, communication, and self-expressiveness were 0.079, 0.055, and 0.232, respectively. The characteristic of fostering self-expressiveness in the third place strongly leads to psychological ownership through customer participation. Studies based on identity theory showed evidence that consumers prefer products or brands that match their own self-concepts (Ilaw 2014; Sirgy et al. 2016). Furthermore, self-image congruity has a positive influence on



consumers' brand preferences and purchases, which are generated as forms of self-expression (Ilaw 2014; Sirgy et al. 2016). Thus, the finding of the present study is supported by identity theory.

The present study proposed a new model integrating the relationships among characteristics of the third place, customer participation, place attachment, and psychological ownership. Finding a missing link connecting the characteristics of the third place and customer psychological ownership contributes to extending studies regarding the third place and psychological ownership. The present study sheds light on interdisciplinary research regarding the third place, on customer participation, and on psychological ownership. The third place has been predominantly researched in the area of environmental psychology, customer participation was researched in marketing, place attachment was examined under tourism and environmental psychology, and psychological ownership was studied in human resource management area.

This study has some implications for practitioners. The results of the present study stress the significance of customers' psychological ownership for sustainable growth of the third place. First, the third place needs to allow customers to proactively participate in working processes beyond simply visiting or staying in the location. Second, proactive participation of customers has a significant effect on psychological ownership through an emotional or affective bond between customers and their third place. Thus, managers of a third place need to understand the characteristics of the third place that become antecedents of proactive customer participation in order to develop place attachment in their customers. Third, managers of a third place need to provide a space enabling customers to concentrate on their work activities without being interrupted by others. By the way, a space for conversation is not always compatible with that of concentration. For example, a space allowing enough conversation can interrupt other customers' concentration. Managers need to make a strategic plan for breaking the tension between conversation and concentration. Sometimes, this can depend on culture and the type of third place. Managers of coffee shops in collectivist cultures have greater difficulty finding solutions to this tension, compared to individualist cultures. Libraries and PC-bangs are more suitable for concentration than restaurants. Fourth, it is important for the third place to match an individual's identity and life style, because self-expressiveness has a significant influence on customer participation, which in turn, is a determinant of psychological ownership. The results of the study contribute to understanding the emerging function of the third place for our changing life styles.

6 Concluding remarks

In sum, place attachment and customer participation in providing feedback and cooperating with the third place are significant determinants of customers' psychological ownership toward the third place. As the third place facilitates self-expressiveness and concentration as well as functionalities such as transactions, meetings, and communication, customers more proactively participate in the third place. The result of the present study regarding customer's psychological ownership underlines



the importance allowing self-expressiveness and concentration in the third place beyond the communication that extant studies (Oldenburg 1989; Jeffres et al. 2009) had already emphasized as significant.

Place characteristics that enable customers to express themselves, and that help them concentrate on their work have a significant influence on active participation in the third place. Therefore, self-expressiveness and concentration are important sources of psychological ownership toward the third place. A third place where customers can concentrate on their work, or where they think the place matches their life style and identity, leads to proactive participation, which is an antecedent to psychological ownership. As managers of the third place come to understand that customers prefer to have a place representing their personal identities, revealing who they really are, and providing characteristics much like a private space where it is appropriate to perform their work, the third place can be a source of competitive advantage for organizations by making customers feel psychological ownership toward it.

Psychological ownership toward the third place leads to sustainable business and customer loyalty. Extant studies argued that psychological ownership is closely related to firm competitiveness (Dawkins et al. 2017; Wagner et al. 2003). Effective design of and operations in the third place enabling customer concentration and self-expressiveness have become a new managerial challenge for third places like libraries, coffee shops, and restaurants. The third place will face crisis because untact culture has been expanding since the COVID-19 pandemic and e-commerce had already exceeded offline transactions (Jensen and Aaltonen 2013). However, the results of the research regarding third place characteristics leading to customer's psychological ownership provide insights on how the third place can be differentiated from online services.

The present study has a limitation in the sampling and generalization of the research findings. A motive for a respondent to choose the third place can be different from others. For further study, a type of the third place can be introduced to the research model as a moderator.

Acknowledgements This work was supported by the Ministry of Education of the Republic of Korea and the National Research Foundation of Korea (NRF-2017S1A5A2A01023642), and this work was supported by the Dongguk University Research Fund of 2019.

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