Understanding Customer Motivation to Share Information in Social Commerce

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ABSTRACT

The gradual emergence of social commerce is enhancing the development of businesses. The opinions exchanged and information shared by each consumer in the community affects consumers' purchasing decisions and participation behaviors. This study established a consumer information sharing model in social commerce based on the theories of social exchange and communication ecology. Data were collected from 204 respondents, and PLS technique was used to analyze the data. The results indicated that reciprocity and community participation exhibited a significantly positive effect on information sharing. Reciprocity and community participation also had partial mediation effects on the consumer-community and consumer-platform relationships.

KEYWORDS

Communication Ecology, Community Participation, Customer Relationship, Information Sharing, Reciprocity, Social Commerce, Social Exchange

1. INTRODUCTION

The gradual emergence of social commerce is enhancing the development of business platforms that combine community communication and product transactions. Group buying websites (e.g., Groupon Reserve, LivingSocial Gourmet, GOMAJI, and Gilt City) are one such type of platform and product review platforms (e.g., Yelp and TripAdvisor) are another. These social media platforms bring together consumers that have the same purchasing needs and product purchasing experiences. Consumers can discuss the characteristics, use experience, and shopping experience concerning a certain product or brand through the platforms (Cheng & Fang, 2015). These platforms attract consumers and encourage them to share their personal opinions and experiences; other consumers can browse the content, which helps them resolve their doubts about a product.

Social commerce combines the concepts of community and e-commerce. Consumers can score, comment, and recommend products. Enterprises establish trust relationships through interactions with consumers (Esmaeili, Mutallebi, Mardani, & Golpayegani, 2015; Gecti & Zengin, 2013; Habibi et al., 2014) and improve consumers' sense of belonging through experience exchanges and information sharing (Laroche, Habibi, Richard, & Sankaranarayanan, 2012; Qin & Kong, 2015). Consumers who identify with and join a community tend to be willing to share personal experiences with other community members (Hajli et al., 2017; Khan, 2017; Liang & Turban, 2011; Zhang, Guo, Hu, & Liu, 2017). In the United States, 70% of online shoppers trust the recommendations of their relatives and

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friends; 46% of online shoppers trust the online reviews of other consumers (Qin & Kong, 2015). Therefore, the recommendations of relatives and friends, the experience sharing of netizens, and the grading results of social commerce profoundly affect consumer purchasing decisions (Hajli & Sims, 2015; Phillips, 2011).

Consumers usually make purchasing decisions on the basis of information collection, product functions, and price comparisons (Maria & Finotto, 2008). Cheng & Fang (2015) demonstrated that 77% of consumers read blog content before purchasing products and 74% of consumers search online consumer reviews. Chen & Shen (2015) proposed that approximately 83% of consumers share shopping information with netizens and nearly 67% of consumers make purchasing decisions on the basis of the recommendations of netizens. In addition, nearly 85% of consumers, whether online or in physical stores, browse the personal experiences shared by consumers online (Liu, Cheung, & Lee, 2016). For products exhibiting unclear functions or high unit prices, consumers may have anxiety and doubts about these products and consequently never purchase them.

If consumers have reviewed the detailed product descriptions on official websites or in marketing advertisements and still have doubts about the products, they then tend to accept the personal experiences shared by other consumers, considering those use experiences to be real and objective (Qin & Kong, 2015). Therefore, a tremendous number of sponsored posts have become common on social media platforms. Enterprises use the popularity and reputations of bloggers and YouTubers to market products or brands (Raetzsch, 2015). However, most of the articles or videos shared by bloggers and YouTubers directly refer to the official product introduction rather than including comments from the perspective of consumers and also lack explanations of product flaws and specific suggestions. These inadequacies lower consumers' trust in bloggers and YouTubers and lead consumers to believe that the information is being provided for commercial purposes and is not objective (Williams & Hodges, 2016).

By undertaking product and brand marketing through the community, enterprises use word of mouth to effectively deliver product or brand information (Jiang, Luo, & Kulemeka, 2016; Habibi et al., 2016). Social commerce emphasizes the importance of the community. The opinions exchanged and information shared by each consumer in the community affects the purchasing decisions and participation behaviors of other consumers (Hajli et al., 2017). Therefore, designing a friendly platform for community social commerce that induces consumers to spontaneously share their personal experiences is vital. Enterprises should determine whether and how external stimulation (e.g., community communication and consumption contexts) or internal factors (e.g., consumers' willingness and attitudes) directly or indirectly affect consumers' information sharing behavior (Wu & Lin, 2016). Therefore, enterprises should explore the latent variables, predispositions, and factors that directly or indirectly affect consumers' information sharing behavior.

In light of the aforementioned research background and motivation, this study proposed the following research question: what are the essential factors affecting consumers' sharing of personal information in social commerce? To solve the research problem, this study established its primary purposes as creating a model of consumer information sharing in social commerce and exploring the factors that affect consumers' information sharing on social commerce platforms. This study investigated consumers' information sharing behavior in social commerce to determine the key factors and to establish a model of consumers' information sharing behavior to assist enterprises to effectively grasp consumers' motivation for participating in information sharing. By encouraging consumers to actively share product information and comments, the visibility of products and brands can be increased, thereby increasing the sales of products.

The remainder of the article is organized as follows. First, we discuss the previous research in the areas of social commerce, social exchange theory and customer relationship. Next, we introduce the research model and hypotheses development. Then, we detail data analysis and research results. Finally, we provide a discussion of the importance, contributions, and implications for researchers and managers. We conclude with a robust future research agenda.

2. THEORETICAL FOUNDATION

2.1 Social Commerce

Over recent years, social media has played an important role in our daily life that enables people to interact and deliver information conveniently. As social media becomes popular, enterprises also attempt to figure out how to adopt social media to attract and engage their consumers. Enterprises apply technical characteristics of social media as business tactics including online collaboration, social support and information sharing (Choi et al., 2020; Chung et al., 2020). Sivarajah et al. (2020) noted that enterprises can employ social media analytics for better understanding consumer needs and improving productivity and efficiency in order to achieve business sustainability. Besides, enterprises also effectively investigate potential consumers and their profiles to search business opportunities by using social media-based approaches (Choi et al., 2020). Accordingly, social media has been adopted by enterprises to enhance interactions with consumers and build a virtual and collaborative environment (Yoo et al., 2015).

Social commerce emerged in 2005 and is considered a novel concept in e-commerce development, combining social media and e-commerce (Hajli, 2013; Hajli, Shanmugam, Powell, & Love, 2015). By combining the unilateral functions of providing product information and enabling shopping transactions, e-commerce websites provide opportunities for consumers to exchange opinions with each other and provide reviews of products and stores. Through social media, consumers can effectively share their personal experiences of products or brands; thus, social media can significantly affect product sales and the brand image of enterprises directly or indirectly (Yang et al., 2014). Barnes (2014) proposed that social commerce is a branch of e-commerce that supports community interactions and provides online purchasing, product sales, and services through social media. Liang & Turban (2011) proposed social commerce as the use of social media technology and frameworks to support online communications and help users access products and services. Hence, social commerce includes online business transactions which involves social networking activities and social network sites (Siau & Erickson, 2011).

Baethge et al., (2016) delineated that social commerce is considered as a relatively new platform which provide consumers to not only purchase products online but also share personal experience, comments and information about products. Social commerce can be categorized into two applications (Liang & Turban, 2011; Tajvidi et al., 2020). One type is that consumers directly purchase goods or services through platforms. The other type is that enterprises mainly take marketing and advertising ways to attract consumers. That is, social commerce is integrated functions of electronic commerce with social networking applications including providing shopping reviews, recommending products to friends, and discussing product benefits and weaknesses (Gvili & Levy, 2021; Nakayama & Wan, 2019). Hence, this study defines social commerce in accordance with Liang & Turban (2011), Baethge et al., (2016), and Gvili & Levy (2021), as a new branch of electronic commerce that involves social media components to provide social interactions and information sharing in order to assist consumers to purchase proper goods and services.

Social commerce is a novel method through which enterprises can engage in business activities. Through synergy and participation, the value chain between all participants is formed (Hajli et al., 2017, Wan & Chen, 2019). Stephen & Toubia (2010) proposed that social commerce consists of an online social medium through which people can market and sell products and provide services in online markets and in the community. Zhang et al. (2013) and Yadav et al. (2013) suggested that social commerce involves the use of online media where people can collaborate and participate in activities related to the marketing, sales, management, purchasing, and sharing of products and services in online and offline markets and in the community. The process through which enterprises use social media to affect the marketing and sales of products no longer follows the procedure whereby the seller provides product information to the buyer; now, the procedure entails consumer participation in online communication platforms. These concepts affect consumers' dynamic patterns of purchasing behavior.

Social commerce influences product sales through the effect of the community. Consumers can score and comment on products, brands, and even stores. The reputations of products and brands created by consumers affect the purchasing behavior of other consumers. Therefore, information shared by consumers considerably affects consumers' behavior. Other studies on social commerce focused on consumers' purchasing intentions and behavior (Hajli et al., 2017; Ho & Wang, 2015) and the effect of word of mouth (Wang & Yu, 2017). Research on consumers' information sharing behavior is insufficient. Facing the uncertainty and risk of e-commerce and concerns about product value and quality, consumers attempt to collect adequate useful information to reduce these uncertainties. Therefore, product information and consumer experiences and evaluations are essential factors affecting consumers' purchasing decisions. This study focused on consumers' information sharing behavior and explored the establishment of this behavior in social commerce.

2.2 Social Exchange Theory

Homans (1958) proposed the idea of social exchange. The primary principle is that social behavior is a type of exchange process, which includes four relationships-behavioral psychology, economics, propositions about the dynamics of influence, and propositions about the structure of small groups. Homans (1958) considered the primary influencing factor of behavior to be reward. If a reward exceeds the cost of undertaking a behavior and meets a person's predetermined expectations, the person will be willing to pay the cost and undertake the behavior. For example, the emergence of human behavior is a dynamic exchange process and may consist of the exchange of material or nonmaterial objects (e.g., money, appreciation, or psychological satisfaction). Blau (1964) and Emerson (1976) modified and extended Homans' theory; however, they retained the idea that the generation of human behavior is a dynamic exchange and the objects of exchange may be money, objects, or satisfaction. If the cost of a behavior can be exchanged for something with equal or higher value, human behavior will be generated; the same concept applies to the value of a product that a consumer believes is equivalent to or exceeds the amount he or she will pay.

The concept of social exchange can not only explain the communication between individuals but also the long-term relationship between individuals and the structure of large social networks (Blau, 1964; Emerson, 1976). If the interaction process between two parties can meet expectations, they will be willing to maintain an interactive relationship with each other because of the accumulating positive experiences (Blau, 1964). Therefore, the generation of behavior is similar to a product trading process, and the obtained goods must be equal to or more than the amount of payment. The establishment of face-to-face interactions and relationships requires reciprocity, and the value of a reward should be equal or more than the cost. If consumers believe that information can be exchanged for other valuable rewards such as other consumers' affirmation and feedback, their belief creates the necessary conditions for an information exchange environment (Moghavvemi et al., 2017).

This study used social exchange theory as the research framework to explore how enterprises can inspire consumers' information exchange behavior with respect to social commerce. The reward of information sharing in the online environment is not necessarily obtained in time, and the information provider, information acquirer, or all the users of the community may participate in the sharing process. However, the participants usually do not know each other, and the relationship between the participants is not as close as that between friends and relatives (Chen & Shen, 2015; Kim & Johnson, 2016). The purpose of this study was to explore the factors that affect the generation of consumers' information exchange behavior.

2.3 Customer Relationship

The popularity of the Internet and social media have facilitated consumers' online sharing of various information such as ratings, comments, recommendations, and experiences. Consumers' word of mouth indeed affects other consumers' purchasing intentions and behavior (Wang & Yu, 2017); thus, the influence of consumers in the social commerce environment is critical. This study used

communication ecology theory (CET) to determine the relationship of consumers in online-to-offline (O2O) commerce (Forth and Hearn, 2007; Seol, Lee, Yu, & Zo, 2016). CET describes the dynamic relationship between the social layer (e.g., social interaction activities), the content layer (e.g., products, services, or events), and the technological layer (e.g., SNS platform) and analyzes the effects of using information technology in online and offline social networks (Forth and Hearn, 2007; Seol et al., 2016). Therefore, this study extended and applied CET to determine the consumer relationships in three types of O2O commerce, namely consumer–community, consumer–product/brand, and consumer–platform relationships.

2.3.1 Consumer–Community Relationship

In the social commerce environment, the people with whom consumers mostly interact are other consumers. Consumers often interact with community members through product reviews, opinion exchanges, or opinion inquiries (Hajli et al., 2017). If consumers are on the same community, their attitudes and behaviors easily affect each other. Consumers are willing to participate in community communication because they feel the similarity, trust, and sense of belonging with other people in the community (Seol et al., 2016). The trust that consumers have for the community positively affects their subsequent purchasing and product evaluation behavior (Hajli et al., 2017; Kim, & Park, 2013). Once consumers have a sense of belonging to a community, it enhances their willingness to participate in it. The consumer–community relationship influences the consumers’ willingness to participate in the community and affects their information sharing behavior (Lin, Featherman, & Sarker, 2016; Seol et al., 2016).

2.3.2 Consumer–Product/Brand Relationship

The feelings and values that products and brands inspire in consumers are essential factors that influence consumer attitudes and behaviors (e.g., repurchasing or recommending behaviors). Consumers’ past experiences affect their expectations and preferences for products and brands, influence their willingness to purchase a product again, and even affect their trust in the brand (Kaewkitipong, Chen, & Ractham, 2016). If consumers had a high level of satisfaction with a product in their past experiences, they tend to be willing to not only purchase it again but also share positive experiences with and recommend it to other consumers (Kaewkitipong, Chen, & Ractham, 2016). In addition, if a brand can provide sufficient information and is responsive to consumers’ questions, it can increase consumers’ trust in the brand. Consumers then tend to have a high degree of purchasing intention for a product and evaluate it positively (Seol et al., 2016).

2.3.3 Consumer–Platform Relationship

The channel through which consumers communicate in the network environment is called a platform. Consumers’ experiences and feelings concerning the use of the platform are other crucial factors affecting a consumer’s sharing behavior. Social media (e.g., Facebook, YouTube, and Twitter) have different characteristics. Effectively using various social media and establishing long-term relationships with consumers are essential tasks for enterprises (Phua, Jin, & Kim, 2017; Smith, Fischer, & Yongjian, 2012; Seol et al., 2016). If the social business platform provides sufficient information and a user-friendly interface and the enterprise provides timely feedback and assistance in response to consumer difficulties, this can attract consumers to visit frequently, increase the probability of a product purchase, and increase the number of consumers’ engaging in online discussions concerning products and sharing experiences (Hadji & Degoulet, 2016; Schultz et al., 2012; Zhang et al., 2017).

3. RESEARCH MODEL AND HYPOTHESES DEVELOPMENT

The research model of this study was established on the basis of social exchange theory (Blau, 1964; Emerson, 1976; Homans, 1958). The establishment of a relationship between people is also a social

Figure 1. Research model

exchange. If the possibility of obtaining a reward is high, the behavior of both parties continues to be generated and an interactive relationship is maintained. The relationship is terminated if one party decides to stop contributing to the relationship (Blau, 1964). Ho & Wang (2015) proposed that consumer relationships positively affect community participation and community participation positively affects information sharing. Therefore, in social commerce, the community comprised of consumers is influential. Consumers' purchasing behavior is affected by the community; thus, consumers' attitudes with respect to community participation are an essential factor affecting information sharing behavior.

Blau (1964) proposed that reciprocity is a crucial element of social exchange and indicated that social exchange does not specifically regulate how much of a reward either of the two parties should provide. Both sides trust the other party to provide a reward. Usually, the objective of the personal behavior of social exchange is to obtain the maximum benefit at the minimum cost. After consumers share personal experience or information, they may obtain reciprocity (Falk & Fischbacher, 2006); thus, reciprocity in social commerce positively affects information sharing (Pai & Tsai, 2016). This study considered reciprocity to be a vital factor. Consumers' purchasing intentions and behavior are affected by past experiences and product review information. Therefore, if enterprises wish to improve their visibility in the product market and increase consumers' purchasing intentions, enterprises should encourage consumers to share their information and opinions. Therefore, the research model of this study was based on the aforementioned ideas (Figure 1).

Consumers' participation in the community includes behaviors such as topic discussions, event participation, and idea exchange (Chen et al., 2015; Hajli et al., 2015; Zhang, Lu, Gupta, & Zhao, 2014). The interactions between community members provide useful information and emotional support that build long-term friendships (Chen et al., 2015; Tsai & Pai, 2013). According to Forman, Ghose, & Wiesenfeld (2008), in the online community, lead users often proactively participate in discussions, share their opinions, and exchange use experiences and thoughts with other consumers. If consumers can find a sense of belonging and a position in the community, they then endeavor to manage their roles and image, actively participate in the community, and continue to interact with members of the community for a long time (Ho & Wang, 2015). More interactions between consumers and the community lead to a stronger relationship between a consumer and the community and entails information support, emotional support, a sense of belonging, role positioning, and image creation, all of which positively influence consumers to maintain their community participation. Thus, it is hypothesized as follows:

H1a: The consumer–community relationship positively affects community participation.

Consumers' favorable impressions and thoughts concerning the use experience of a product affect consumers' attitudes towards the brand. Consumers participate in community discussions about the brand and exchange their thoughts and experiences about the brand with other consumers (Brakus et al., 2009). If consumers have a high degree of satisfaction and loyalty to the brand or a positive impression of the brand (e.g., service quality and service focused on the consumer experience), consumers continue purchasing the brand's products, establish positive word of mouth, and recommend products in the community. This behavior affects other consumers' purchasing intentions (Gecti & Zengin, 2013; Erdoğan & Tatar, 2015; Fu et al., 2015). The results of consumers' product or brand experiences influence consumers' intentions and behavior (Brakus et al., 2009). For example, brand marketing personnel and consumers maintain a relationship and constantly exchange opinions. The relationship provides consumers with useful information and increases consumers' brand satisfaction. Therefore, consumers are willing to interact with other consumers in the community (Yuan et al., 2016; Zhang et al., 2016). Hence, we propose the following hypothesis:

H1b: The consumer–product/brand relationship positively affects community participation.

Consumers can share information and knowledge on social platforms and also establish cooperative relationships with other consumers; these activities become part of consumers' routines (Zhang et al., 2017). Therefore, consumers' willingness to use platforms affects the consumers' use behavior of the platform. If consumers believe that the functions and content provided by the platform meet their expectations, then consumers use the platform frequently and communicate with other consumers through the platform, actively participating in community activities (Seol et al., 2016). The community platform provides the environment for consumers to share their consumption experiences and subjective opinions. If the platform is characterized by the presence of sufficient consumption information that is correct and integrated and the platform functions are stable, instant, and user-friendly, consumers' willingness to participate in social commerce is increased (Ho & Wang, 2015; Kaewkitipong et al., 2016). If consumers believe that participating in the platform is helpful for obtaining useful information or social benefits, their willingness to participate in social commerce platforms is improved (Ho & Wang, 2015). The hypothesis is built as follows:

H1c: The consumer–platform relationship positively affects community participation.

Interactions between consumers and the community provide consumers with emotional support and useful information, which affect the consumers' helping behavior where the consumers try to return the support to the community (Chan & Li, 2010; Pai & Tsai, 2016; Zhu et al., 2016). If the coherence of the social network is strong and the members are close, more helping behaviors are generated to help other members; for example, in a highly interactive community, members are willing to share their knowledge and help solve the difficulties of other members (Wasko & Faraj, 2005). If consumers are essential to the community, the importance they feel about themselves generates coherence and a sense of belonging to the community, which encourages consumers to engage in reciprocal behaviors (Chan & Li, 2010). If consumers feel support from other community members, these feelings increase the consumers' participation intention in the community; thus, the consumers are willing to interact with community members (Liang, Ho, Li, & Turban, 2011). Social support affects consumers' attitudes towards the community. When consumers believe that interactions with community members are not unilateral, reciprocal attitudes and behavior are naturally undertaken (Liang et al., 2011; Yuan et al., 2016). Thus:

H2a: The consumer–community relationship positively affects reciprocity.

Talja (2002) proposed that reciprocity is an essential factor affecting consumer behavior. If consumers believe that a brand's products are worth more than they cost or positively evaluate the brand and its products, consumers tend to have a strong intention to purchase products again and recommend the brand to relatives and friends (Brakus et al., 2009; Fu et al., 2015; Yang & Fryxell, 2009). If consumers are satisfied with the service and values provided by the product and brand, consumers perceive their substantial interests and consider themselves to be in a mutually beneficial relationship (Chaudhuri & Holbrook, 2001). In addition, if product suppliers or brand marketing personnel often explore consumers' needs through community platforms, frequently update activity information, actively interact with consumers, and provide services that satisfy consumers, consumers tend to feel emotional support and actively reciprocate in the community (Chan & Li, 2010; Gecti & Zengin, 2013). Hence, we propose the following hypothesis:

H2b: The consumer–product/brand relationship positively affects reciprocity.

The social commerce platform is a channel in which consumers can search for and share product information or purchase products. If the platform meets consumers' needs and has a simple and user-friendly interface that engenders consumers' positive attitudes towards the platform, consumers continue to use it. In addition to using the platform, they also tend to be willing to reciprocate with other consumers (Liang et al., 2011; Hadji & Degoulet, 2016). Moreover, the usability, entertainment, and community influence of the platforms also affect consumer satisfaction and their attitude of reciprocity towards the platform (Lin et al., 2016; Kaewkitipong et al., 2016; Seol et al., 2016). In addition, some platforms create consumer award systems. If consumers believe that using the platform can benefit them, including through the acquisition of useful information, exchanging opinions, or simply pleasure, the consumers' tend to believe that the platform provides a fair and mutually reciprocal system (Seol et al., 2016). The hypothesis is built as follows:

H2c: The consumer–platform relationship positively affects reciprocity.

An information encounter refers to the situation where consumers obtain useful information that transcends their personal expectations and this information is obtained from other consumers' information sharing (Talja, 2002). Information sharing and access can be regarded as a type of cooperative behavior in which obtained information is shared with other consumers and allows the information to generate different values for different consumers. Information sharing can promote social communication, and social communication is accompanied by information sharing (Talja, 2002). Consumers use the community to share information with other members. If the members consider the information to be useful and correct, the information sharing behavior enhances the trust among community members (Hsu & Chang, 2014). In addition, the frequency of communication among community members also positively affects knowledge sharing behaviors (Chang & Chuang, 2011; Chiu et al., 2006; Kwahk & Park, 2016) and information sharing behaviors (Shang, Wu, & Li, 2017). Therefore, the closeness between community members affects community members' decisions to share personal experiences and useful information (Chung, Nam & Koo, 2016). Thus, it is hypothesized as follows:

H3a: The consumer–community relationship positively affects information sharing behavior.

Brand image influences consumers' purchasing intentions. If a brand's products meet consumers' needs and generate high levels of consumer satisfaction, consumers tend to positively evaluate the

brand (Cheung, Lee, & Lee, 2013). Effectively communicating with consumers is an essential process. If a company can provide consumers with the information they need, respond to consumer questions, frequently communicate with consumers, and increase emotional support, consumers tend to be willing to recommend the brand to other consumers (Zhu et al., 2016). Specifically, after consumers obtain a satisfactory response from the community, the consumers tend to empathically reciprocate with other consumers on the platform (Cheung et al., 2013; Hashim & Tan, 2015). If a brand is willing to communicate with consumers frequently to assist consumers with solving problems related to products, this can enhance consumers' intention to continue sharing information (Cheung, Lee, & Lee, 2013; Hashim & Tan, 2015). The hypothesis is built as follows:

H3b: The consumer–product/brand relationship positively affects information sharing behavior.

Consumers' information sharing on the Internet is mediated by a platform. The functions and features of the platform affect consumers' willingness to use it. When consumers are willing to continue to use a platform, the platform's value and usefulness are confirmed (Kaewkitipong et al., 2016). Consumers use community platforms to search for information related to products (including reviews, word of mouth, and user-generated content), to solve the problems they have with products, and to improve the quality of their purchasing decisions. Therefore, the platform provides consumers with a channel for sharing and accessing information. If consumers are highly satisfied with the platform, it affects consumers' information sharing behavior (Yuan et al., 2016). The social platform provides the functions required by consumers (including community communication and entertainment functions) and gives consumers positive experiences. When consumers are satisfied with the platform, consumers tend to spontaneously share personal experiences and reciprocate (Lin et al., 2016; Seol et al., 2016). Thus:

H3c: The consumer–platform relationship positively affects information sharing behavior.

Rioux (2005) proposed that information acquisition and information sharing are interrelated. Received information does not necessarily meet the receivers' needs. Therefore, if the information receivers actively provide the obtained information and assist others in making decisions or provide relevant advice, these measures give the information different values. Therefore, information sharing can be regarded as a cooperative behavior (Yu, Lan & Zhao, 2018; Talja, 2002). Information sharing involves information receivers and information sharers. If both parties trust each other and have a stable relationship, information sharing behavior is generated naturally (Hansen & Järvelin, 2005). The higher the level a consumer's community participation is, the greater the sense of belonging in the community she has. Consumers can be willing to communicate, discuss, share information, share experience, and provide word-of-mouth recommendations in the community (Chang & Chuang, 2011; Royo-Vela & Casamassima, 2011). Community participation improves the close relationships between consumers because they trust and understand each other; this encourages consumers to share information with each other (Algesheimer, Dholakia, & Herrmann, 2005; Chung et al., 2016; Kwahk & Park, 2016). Thus, it is hypothesized as follows:

H4: Community participation has a significantly positive effect on information sharing behavior.

Reciprocity affects consumers' intentions and behaviors. Consumers self-explore and reflect on themselves and assess whether their behavior is in line with norms and pay attention to determine if the interest exchange between them and others is fair (Pai & Tsai, 2016). Grant and Preston (2018) proposed that information sharing occurs in the cooperative behavior of social networks. Participants gain benefits through information sharing to achieve common goals. The interaction and trust

relationship also encourages participants to share information. Information sharing behaviors can be regarded as reciprocal cooperative behavior between the information provider and the receiver. The information provider shares personal experiences and opinions with the information receiver, and thus the shared information has new values (Talja, 2002). Pai and Tsai (2016) suggested that in the social commerce environment, reciprocity positively affects consumers' information sharing behavior. Reciprocity norms positively affect users' knowledge sharing behavior in social media (Kwahk & Park, 2016). Therefore, according to the viewpoint of reciprocity, after consumers obtain useful information, information sharing behavior is generated on the basis of the obligations of reciprocity (Moghavvemi et al., 2017). Hence, we propose the following hypothesis:

H5: Reciprocity positively affects information sharing behavior.

4. METHODOLOGY

4.1 Measurement Development

This study collected data by distributing a questionnaire. The content solicited by the questionnaire was divided into two parts. The first part inquired as to the consumers' information sharing behavior on the social commerce platform, and the second part asked for personal information. Experts in three fields were first invited to conduct a semantic and wording review of the narratives of each item, and then the narration was adjusted according to the experts' suggestions to improve the content validity of the questionnaire. A pretest was conducted by distributing the questionnaire online, and some items were deleted according to the reliability and validity of the pretest. Table 1 provides the definitions of constructs used in our research model with referred studies. All scale items were measured on seven-point Likert scales that ranged from strongly disagree (1) to strongly agree (7).

4.2 Data Collection

We conducted a survey to collect primary data from active consumers on social commerce platforms in Taiwan. The inclusion criteria were that respondents should have (1) been involved in at least one social commerce platform, and (2) contributed at least one discussion or comment to social commerce platforms. To encourage participation, a lottery draw for twenty NT\$200 (US\$6) convenience store gift certificates was offered. A total of 482 copies were distributed, 244 copies were recovered, and 40 invalid copies were excluded. A total of 204 copies were valid, and the response rate was 42.3% (Table 2).

5. DATA ANALYSIS AND RESULTS

5.1 Data Analysis Technique

Structural equation modeling (SEM) is to examine research models and investigate the relations between exogenous and endogenous structures (Choshin & Ghaffari, 2017). According to Wong (2013) and Hwang and Kim (2018), the partial least squares (PLS) of SEM can be adopted to studies with low sample size requirement and little appropriate theoretical grounding. The PLS also is a flexible method to build complicated research models including reflective and formative indicators (Lowry & Gaskin, 2014). The PLS does not require normal distribution (Hair, Hult, Ringle, & Sarstedt, 2016) and can be applied to examine variables with fewer items (Kovacevic, Abdi, & Beaton, 2013). Yi and Gong (2009) addressed that the PLS analysis is suitable used in explorative research in marketing field. Meanwhile, the variables in this study were unobservable variables. Therefore, this study used the PLS for analysis. Through indicator variables, the PLS was used to incorporate indirectly measured unobservable variables into this study and to calculate the measurement error of observed

Table 1. Summarized definition of construct

Construct	Definition	Reference
Consumer–community (CC)	The extent to which consumers perceive that they intend to interact with community members	Ho & Wang (2015) Seol et al. (2016)
Consumer–product/brand (CPB)	The extent to which consumers perceive that they intend to understand the products/brands	Ho & Wang (2015) Seol et al. (2016)
Consumer–platform (CP)	The extent to which consumers perceive that they intend to use the O2O platforms	Seol et al. (2016)
Community participation (CPA)	The extent to which consumers perceive that they intend to take part in community activities	Khan (2017)
Reciprocity (REC)	The extent to which consumers perceive that they intend to support members in return for community members' help to them	Pai & Tsai (2016)
Information sharing (IS)	The extent to which consumers perceive that they intend to share their information with community members	Rioux (2005) Grant & Preston (2019).

variables (Hair, Black, Babin & Anderson, 2018). The PLS was used to verify models and develop a theory without generating unreasonable estimates or unrecognized models. Consequently, this study adopted bootstrapping for small samples to verify reflective and formative indicators (Hair, Sarstedt, Hopkins, & Kuppelwieser, 2014; Hair & Hult, 2016).

5.2 Measurement Model

The reliability and validity of the measurement model were first analyzed (Table 3). Individual item reliability refers to the degree to which each variable could be explained by a latent variable. According to factor loading (>0.5), as suggested by Hair et al. (1992), all the factor loading in this study was higher than 0.8. Furthermore, Cronbach's Alpha was used to assess the constructs' reliability scores and all the scores were above a 0.80 threshold, which is higher than the 0.7 threshold that determines reliable constructs as suggested by Cronbach (1951). Composite reliability refers to the consistency of the latent variables inside the construct. If the value is high, the measurement variable is highly correlated. Hair et al. (2018) suggested that the CR value should be higher than 0.7. All the CR values in this study were higher than 0.8, indicating favorable internal consistency of the constructs. Therefore, the questions in this study exhibited fair reliability.

Average variance extracted (AVE) was primarily used to determine whether each item could effectively measure the latent variables and thus serve as an indicator for measuring the convergence validity. Fornell & Larcker (1981) suggested 0.5 as the threshold for determining whether convergent validity was achieved. The AVE of each construct in this study was higher than 0.5, indicating that the questionnaire in this study exhibited fine convergent validity. In addition, Table 4 indicates that the correlation coefficients between various constructs were lower than 0.85 (Kline, 2016) and the square root values of the AVE of each construct were greater than the correlation coefficients between the constructs (Fornell & Larcker, 1981). The factor loading of the variables and explained constructs was higher than that of the variables and nonexplained constructs (Table 5). Therefore, the items in the questionnaire exhibited favorable discriminant validity.

5.3 Structural Model

The results of the study are presented in Figure 2 and Table 6. The consumer–community relationship had a significantly positive effect on community participation behavior ($\beta = .2920$, $p < .01$); thus, hypothesis H1a was supported. The consumer–product/brand relationship did not significantly affect

Table 2. Descriptive Information about Respondents

Measure	Items	Numbers	Percentages
Gender	Female	127	62.3%
	Male	77	37.7%
Age	<18	3	1.5%
	18-24	178	87.3%
	25-30	14	6.9%
	31-35	5	2.5%
	36-40	1	0.5%
	>41	3	1.5%
Education	Secondary Education	2	1.0%
	University (Bachelor)	162	79.4%
	University (Master)	40	19.6%
Which platforms do you participate in? (You can have multiple answers)	Social network sites (Facebook, YouTube, Pinterest, Instagram, Snapchat, Twitter, LinkedIn etc.)	190	40.1%
	Shopping websites (Yahoo, Taobao, Shopee, Amazon, Lyst, Soldsie etc.)	56	11.8%
	Online review websites (TripAdvisor, EZTABLE, Yelp, Mobile01, UrCosme etc.)	42	8.9%
	Group-buying websites (Groupon, GOMAJI, GoodLife etc.)	174	36.7%
	Crowdfunding platforms (Kickstarter, flyingV etc.)	9	1.9%
	Social commerce platforms (OpenSky, the fancy, Rocomi etc.)	3	0.6%
Frequency	Never	0	0.0%
	Once a day	73	35.8%
	Several times a day	55	27.0%
	>Once a week	30	14.7%
	>Once a month	46	22.5%

community participation behavior ($\beta = -.0366$, $p > .05$); thus, hypothesis H1b was not supported. The consumer–platform relationship had a significantly positive effect on community participation behavior ($\beta = .4548$, $p < .001$); thus, hypothesis H1c was supported. The consumer–community relationship had a significantly positive effect on reciprocity ($\beta = .2119$, $p < .05$); thus, hypothesis H2a was supported. The consumer–product/brand relationship had a significantly positive effect on reciprocity ($\beta = .3557$, $p < .001$); thus, hypothesis H2b was supported. The consumer–platform relationship had a significantly positive effect on reciprocity ($\beta = .3124$, $p < .001$); thus, hypothesis H2c was supported. The consumer–community relationship did not significantly affect information sharing behavior ($\beta = -.0671$, $p > .05$); thus, hypothesis H3a was not supported. The consumer–product/brand relationship had a significantly positive effect on information sharing behavior ($\beta =$

Table 3. Measurement Model Constructs

Constructs		Items	FL	CR	AVE	Cronbach's Alpha
Customer relationship	Consumer–community	CC1	0.921	0.957	0.881	0.932
		CC2	0.953			
		CC3	0.942			
	Consumer–product/brand	CPB1	0.868	0.910	0.772	0.852
		CPB2	0.862			
		CPB3	0.904			
	Consumer–platform	CP1	0.888	0.915	0.729	0.876
		CP2	0.801			
		CP3	0.888			
		CP4	0.835			
Community participation		CPA1	0.865	0.890	0.730	0.876
		CPA2	0.835			
		CPA3	0.863			
Reciprocity		REC1	0.849	0.948	0.752	0.934
		REC2	0.909			
		REC3	0.884			
		REC4	0.858			
		REC5	0.828			
		REC6	0.871			
Information sharing		IS1	0.926	0.938	0.834	0.900
		IS2	0.940			
		IS3	0.873			

.2714, $p < .001$); thus, hypothesis H3b was supported. The consumer–platform relationship did not significantly affect the information sharing behavior ($\beta = .1455$, $p > .05$). Community participation significantly and positively affected information sharing ($\beta = .3124$, $p < .001$); thus, hypothesis H4 was supported. Reciprocity significantly and positively affected information sharing ($\beta = .2520$, $p < .01$); thus, hypothesis H5 was supported.

5.4 Mediation Test

The consumer–community and consumer–platform relationships did not directly affect information sharing; however, they positively affected community participation and reciprocity. Moreover, both community participation and reciprocity positively affected information sharing behavior. Therefore, this study analyzed the mediation effect of the two latent variables (community participation and reciprocity) on the effects of the consumer–community and consumer–platform relationships on information sharing. Specifically, this study investigated whether the consumer–community and consumer–platform relationships indirectly affected information sharing behavior. As depicted in Figs. 3–6, each variable exhibited a significantly positive effect on the other. This study determined the mediation effect by calculating the path coefficients of indirect and direct effects. In the past, Sobel verification was used to verify mediation effects. However, Hair et al. (2014) contended that

Figure 2. Results of PLS analysis

Sobel verification was inadequate for statistical appraisal of small samples. The PLS method uses bootstrapping and thus its verification power is higher than that of Sobel verification; therefore, this study applied PLS verification to the mediation effect using Variance Accounted For (VAF). VAF refers to the percentage of indirect effect of the total effect. If $VAF < 20\%$, no mediation effect exists; if $20\% \leq VAF \leq 80\%$, a partial mediation effect exists; and if $VAF > 80\%$, a full mediation effect exists (Hair & Hult, 2016).

As presented in Table 7, the VAF value of the effects of community participation on the consumer–community relationship and information sharing behavior was 43.48%, indicating a partial mediation effect. The VAF value of the effects of community participation on the consumer–community relationship and information sharing behavior was 34.79%, indicating a partial mediation effect. If consumers were not only involved in the use of social platforms to search for information but also became part of the community on the community platform and actively participated in various

Table 4. Construct correlations

Construct	Consumer -Community	Consumer -Product/Brand	Consumer -Platform	Community Participation	Reciprocity	Information Sharing
Consumer -Community	0.939					
Consumer -Product/Brand	0.689	0.878				
Consumer -Platform	0.726	0.648	0.854			
Community Participation	0.597	0.459	0.643	0.854		
Reciprocity	0.682	0.703	0.694	0.521	0.867	
Information Sharing	0.584	0.640	0.648	0.622	0.661	0.913

Table 5. Cross loadings

	Consumer -community	Consumer -product/brand	Consumer -platform	Community participation	Reciprocity	Information sharing
CC1	0.921	0.669	0.664	0.563	0.637	0.523
CC2	0.953	0.661	0.711	0.567	0.649	0.564
CC3	0.942	0.610	0.668	0.550	0.634	0.557
CPB1	0.630	0.868	0.580	0.409	0.645	0.558
CPB2	0.544	0.862	0.537	0.392	0.543	0.495
CPB3	0.635	0.904	0.587	0.408	0.654	0.624
CP1	0.657	0.570	0.888	0.602	0.590	0.545
CP2	0.539	0.416	0.801	0.487	0.497	0.434
CP3	0.650	0.592	0.888	0.576	0.651	0.611
CP4	0.622	0.612	0.835	0.524	0.618	0.605
CPA1	0.602	0.520	0.647	0.865	0.592	0.607
CPA2	0.376	0.243	0.411	0.835	0.264	0.428
CPA3	0.510	0.362	0.546	0.863	0.418	0.527
REC1	0.531	0.576	0.566	0.388	0.849	0.465
REC2	0.626	0.620	0.601	0.437	0.909	0.583
REC3	0.649	0.605	0.615	0.413	0.884	0.554
REC4	0.613	0.579	0.554	0.437	0.858	0.508
REC5	0.524	0.599	0.629	0.541	0.828	0.628
REC6	0.599	0.664	0.634	0.481	0.871	0.670
IS1	0.488	0.556	0.547	0.535	0.563	0.926
IS2	0.525	0.617	0.598	0.542	0.624	0.940
IS3	0.581	0.577	0.625	0.621	0.618	0.873

community communications and activities, this participation would increase the opportunity for consumers to actively share personal information. The VAF value of the effect of reciprocity on the consumer–community relationship and information sharing behavior was 57.16%, demonstrating a partial mediation effect. The VAF value of the effect of reciprocity on the consumer–platform relationship and information sharing behavior was 76.88%, also indicating a partial mediation effect. For consumers who had received help from other community members or have used the services provided by the social platform, reciprocity motivated them to help share useful information with other community members.

5.5 Discussion

All hypotheses were supported except for hypotheses H1b, H3a, and H3c. Community participation and reciprocity exhibited partial mediation effects. The reasons H1b was not supported were as follows. First, the consumer–product/brand relationship emphasized consumers’ past experience with products and brands; these past experiences primarily affected consumers’ perceptions and attitudes towards the products and brands and easily induced information sharing behavior. The consumer–product/brand relationship did not affect the intentions and behaviors of consumers with respect to participating in the community. Second, if consumers had a satisfactory relationship with products and brands,

Table 6. Structural testing results

Hypothesized path	Standardized path coefficients	Result
H1a: Consumer-community @Community participation	0.2920 (3.0060)	Supported
H1b: Consumer- product/brand @Community participation	-0.0366 (0.4085)	Not supported
H1c: Consumer-platform @Community participation	0.4548 (5.5846)	Supported
H2a: Consumer-community @Reciprocity	0.2119 (2.3624)	Supported
H2b: Consumer- product/brand @Reciprocity	0.3557 (5.0449)	Supported
H2c: Consumer-platform@ Reciprocity	0.3124 (3.5200)	Supported
H3a: Consumer-community @Information sharing	-0.0671 (0.9848)	Not supported
H3b: Consumer-product/brand @Information sharing	0.2714 (3.8429)	Supported
H3c: Consumer-platform @ Information sharing	0.1455 (1.6570)	Not supported
H4: Community participation @Information sharing	0.3124 (4.0952)	Supported
H5: Reciprocity @Information sharing	0.2520 (2.6165)	Supported
*p < 0.05; **p < 0.01; ***p < 0.001		

Figure 3. Mediation test: consumer-community, community participation and information sharing

Figure 4. Mediation test: consumer-platform, community participation and information sharing

Figure 5. Mediation test: consumer-community, reciprocity and information sharing

Figure 6. Mediation test: consumer-platform, reciprocity and information sharing

Table 7. The mediating role of community participation and reciprocity

Path	Indirect effect	Indirect effect	VAF	Mediation type observed
Consumer-community @ Community participation@ Information sharing	0.2546896	0.3310430	43.48%	Partial
Consumer-platform @ Community participation@ Information sharing	0.2258404	0.4232920	34.79%	Partial
Consumer-community @ Reciprocity @ Information sharing	0.3339277	0.2502610	57.16%	Partial
Consumer-platform @ Reciprocity @ Information sharing	0.2826689	0.3676670	43.47%	Partial

this meant that consumers were satisfied with or preferred such products or brands. However, not all consumers were willing to actively participate in the activities of the community platform. A strong sense of identity and a high degree of involvement with the community were necessary to instigate active participation in community activities by consumers; thus, this study inferred that the relationship between consumers and a product/brand did not significantly affect community participation.

The reasons hypothesis H3a was not supported were as follows. First, even if consumers had a satisfactory relationship with the community, it was not easy for consumers to share information. Therefore, if enterprises could leverage other factors (e.g., trust, familiarity, cognition, and closeness) to enhance consumers' sense of belonging through opinion exchanges or activities, this could encourage consumers to share information with members of the community. Second, consumers primarily used the community to obtain useful information (e.g., asking questions or asking for help from community members). Although consumers maintained a favorable relationship with the community, consumers' willingness to share information was reduced if they did not perceive some benefit, perceived high risk, or did not completely trust the community after sharing information with the community. The reasons H3c was not supported were as follows. First, consumers used the platform to search for useful information, and even if consumers were satisfied with the platform and continued to use it, the use entailed information acquisition rather than information sharing. Second, if consumers were unclear about the targets or problems of information sharing, this reduced their intention to share information. Therefore, if the platform incorporated multiinteraction functions to stimulate consumer participation in the discussion, this might encourage consumers to share information.

6. CONTRIBUTIONS, IMPLICATIONS, LIMITATIONS AND FUTURE RESEARCH

6.1 Findings

According to the aforementioned discussion, this study includes the following critical findings. The first finding pertains to the roles of consumer-community and consumer-platform as community participation and reciprocity critical boosters of the research model. In previous studies, the roles of consumer-community and consumer-platform as antecedents of community participation and reciprocity have received only limited attention in the field of social commerce (Chan & Li, 2010; Chen et al., 2015; Hajli et al., 2015; Khan, 2017; Pai & Tsai, 2016). According to research results presented in this study, these roles would become clearer as it would appear that enterprises have to provide appropriate community activities and create opportunities for consumers to communicate with other community members frequently, gain useful information through the community, and even receive encouragement and support from community members (Chan & Li, 2010; Yu et al., 2018). By implementing suitable measures, consumers' reciprocal attitude can be improved; consequently, consumers would perceive membership in the community as being beneficial and regard reciprocity as their obligation and responsibility. Besides, the effect of consumer-platform also shows a much stronger impact on community participation and reciprocity than consumer-community has shown. The reason why the important motivation for consumers to continuously join in social networks such as social identification, or social support (Phua et al., 2016; Seol et al., 2016). It is possible that consumers pay attention to service quality, customer experience and trust of social commerce platforms to acquire valuable transaction process (Brakus et al., 2009; Kaewkitipong et al., 2016; Kim & Park, 2013). The finding implies that enterprises have to build comprehensive and user-friendly social commerce platforms to provide consumers with high-quality services and functions (Liang et al., 2011).

According to Jansen et al. (2011), there is less research focusing on the issue of information sharing for ecommerce purposes, even though lots of previous studies investigated the research topics of social network connections and activities. Besides, Kong et al. (2020) noted that existing studies have not explained what critical factors enable consumers to share information with others within ecommerce platforms. The results of this study indicated that reciprocity and community participation exhibited a significantly positive effect on information sharing. According to the results of the test concerning the mediation effect, reciprocity and community participation also had partial mediation effects on the consumer-community and consumer-platform relationships, respectively (Pai & Tsai, 2016; Chen et al., 2015; Hajli et al., 2015). As hypothesised, the effect of community participation has

a much stronger impact on consumers' sharing behavior than previous studies have indicated (Fang et al., 2008; Wu & Sakuko, 2010). The importance of community participation on social commerce may be a contributing factor. Shin (2013) concluded that social commerce activity is more than merely purchasing. Consumers can take part in the social activities of entertainment, education and information to interact with others. The primary strategy of enterprises should be designing appealing community activities that encourage consumers to share their personal experiences and information. As Liang et al. (2011) suggested, building an amicable virtual environment with sufficient social support and maintaining high quality relationships with consumers and enterprises are the useful tactics to enable consumers to participate in communities of social commerce. Hence, the finding indicates that consumer participate in the community and effectively motivate consumers to share their personal experiences and information.

6.2 Theoretical Contributions

The academic contributions of this study are as follows. First, three consumer relationships exhibited direct or indirect effects on consumers' information sharing behavior. The results of this study demonstrated that consumers' attitudes and evaluations of products and brands were the key factors affecting consumers' information sharing. In addition, the consumer–community and consumer–platform relationships had indirect effects on information sharing behavior through community participation and reciprocity (Pai & Tsai, 2016; Chen et al., 2015; Hajli et al., 2015). Therefore, enterprises should value consumers' attitudes and ideas about products and brands and take them as an essential foundation, on the basis of which to engage in continuous research deeply exploring consumers' information sharing behavior in social commerce (Pai & Tsai, 2016; Shang et al., 2017).

For example, Yelp.com is one of the leading social commerce portals that enables members (i.e., Yelpers) to retrieve and contribute valuable tourism reviews. In order to increase brand awareness, Yelp asks users to have an account to read reviews and does not allow users to rate a restaurant without writing reviews as well. Yelp allows users to vote on the usefulness of each review. Hence, Yelp designs social networking activities to enhance consumers engagement. Furthermore, maintaining long term relations with Yelpers is an important business strategy, so Yelp encourages Yelpers to become a member of a premium social community (i.e., the Yelp Elite Squad). Yelpers can interact with each other to share interests and opinions and take part in exclusive events in the community. Yelpers have high intention to continuously contribute quality reviews with high loyalty.

Second, community participation directly affects consumers' information sharing behavior, and the consumer–community and consumer–platform relationships indirectly affect information sharing behavior through community participation. To our knowledge, other research did not deeply explore what influenced consumers' community participation. However, this study determined that in the social commerce environment how to design a platform to induce consumers to participate in the community should be a topic that enterprises pay attention to. Enterprises should provide opportunities for consumers to participate in community activities to narrow the distance between the enterprises and consumers, creating a deeper and stronger connection between them (Grant and Preston, 2018). Specifically, enterprises should increase the degree of consumers' involvement in the community to boost their information sharing behavior (Habibi et al., 2014; Fu et al., 2015; Zhang et al., 2017).

Third, in social commerce, reciprocity is one of the crucial factors affecting consumers' information sharing behavior. The three consumer relationships proposed in this study all positively affected reciprocity, and reciprocity directly affected information sharing behavior. Reciprocity is also a mediator variable. The consumer–community and consumer–platform relationships indirectly affected information sharing behavior through reciprocity. Most other studies explored the effect of reciprocity on knowledge sharing but did not closely examine how it influenced consumer behavior in social commerce. Therefore, in the domain of social commerce research, reciprocity is a key factor that should be explored further.

6.3 Managerial Implications

This study provides valuable guidelines for businesses. First, community participation is an essential factor in social commerce. Enterprises should encourage consumers to participate in the community and value community communication (Laroche et al., 2012; Seol et al., 2016). Enterprises can invite consumers to participate in product production (Chang & Chuang, 2011). Interactive brand designing activities can improve the connection between the enterprise and consumers and motivate consumers to deeply participate in the product and brand community (Zhang et al., 2018; Zhu et al., 2016). These participatory activities can lead consumers to explore the characteristics and stories of products and brands. These activities can also generate positive consumer evaluations and establish product or brand loyalty, creating a sense of belonging in the community among consumers (Wu & Lin, 2016; Zhang et al., 2016). As consumers become more active in community activities, they gain a stronger willingness to share their experiences and opinions regarding products and brands in the community (Hashim & Tam, 2015; Chung et al., 2016).

Second, the consumer–product/brand relationship directly affects information sharing behavior; thus, enterprises should pay attention to consumers’ attitudes towards products and brands and improve levels of product and service satisfaction to build brand loyalty. Enterprises should also invite consumers to discuss products and brands and effectively respond to consumers’ questions, paying attention to consumers’ feedback; these measures would encourage consumers to positively evaluate products and brands (Wu & Lin, 2016). Hence, enterprises must pay more attention to consumers’ needs. They should emphasize the value of products and brands and improve communication with consumers by analyzing consumers’ demand for products, understanding consumer expectations for products and brands, and creating friendly and useful community platforms (Gecti & Zengin, 2013; Barnes, 2014; Phua et al., 2015).

Finally, reciprocity is also an essential factor affecting information sharing behavior. Enterprises should establish information exchange norms and systems (Talja, 2002). If enterprises value consumers’ reciprocal benefits on the social media platform and establish a norm for information exchange that enhances consumers’ information sharing, this would also help consumers obtain the information they need; for example, consumers may obtain useful information or offers by making a certain number of responses (Chung et al., 2016; Liu et al., 2016). Enterprises should establish a reciprocal community platform that provides consumers with a system of feedback and affirmation to improve consumers’ perceptions of reciprocity and make consumers feel a responsibility to reciprocate that encourages consumers to share helpful information (Chan & Li, 2010; Pai & Tsai, 2016; Moghavvemi et al., 2017).

6.4 Limitations and Future Research

This study has the following limitations. First, consumers have numerous channels for sharing information, including ratings, comments, sharing event information, participating in brand events, and recording unboxing review videos; however, these information sharing methods have various characteristics. To explore the most common consumer behavior patterns, this study incorporated all information sharing behavior. Future studies can explore the background and factors that influence specific consumers to select particular information sharing methods. Second, several types of social commerce platforms exist. Various platforms have different operating methods and purposes, including product discussions, group purchasing, and the establishment of personal brands to sell products. Therefore, consumers’ attitudes and purposes tend to be different. The common essential factors of the various types of social commerce platforms should be explored. Therefore, this study included all social commerce platforms to explore the factors affecting consumers’ information sharing behavior. Future research can focus on the methods that enhance the value and benefits of social commerce and further consider potential factors such as consumer experience, platform technology, and service innovation to improve the research framework.

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