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# Influence on the Use Intention of Alipay Payment Service by Chinese Tourists Visiting Korea\*

Ming-Guang HE<sup>1</sup>, Hwa-Kyung KIM<sup>2</sup>, Jong-Ho LEE<sup>3</sup>

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### Abstract

**Purpose**: In the past, the South Korean government made various efforts to attract Chinese tourists, resulting in gradually more inbound tourists. In 2016, the number of Chinese tourists to South Korea peaked at 8.06 million and became the top source market. Nevertheless, increasing numbers of consumers choose to adopt the mobile payment tool instead of cash and credit cards in modern times with developed IT services. **Research design, data, and methodology**: IBM SPSS AMOS 23.0 and IBM Statistics 23.0 were used to analyze the data, which was collected from hotel employees in China from March 25 to May 10. **Results**: First, Interactivity, security, convenience, local information supply and user interface had positive effects on satisfaction and reliability. Second, it was believed that the convenience of Alipay played a positive role in increasing reliability and satisfaction through verification. Third, the role of use rate was found to be important in the development of Alipay functions. **Conclusions**: Based on the result, an analysis on the development of the Alipay market and the use of Alipay in South Korea is warranted. Furthermore, this paper will serve as a basis for flexible strategic plans for the development of Alipay and SMEs in South Korea.

Keywords : Mobile payment, Alipay, Service quality , Intention, Korea-Visiting Tourists

JEL Classification Code : M10, M16, M19

# 1. Introduction

Since the diplomatic relation between South Korea and China was established in August 1992, the two countries have been continuously involved in the communication in many fields such as politics, economy, society, and culture. Moreover, the investment of manpower and material resources between the two countries has increased year by year in education, tour and other related fields. In 1998, the two governments signed the "ADS Agreement". Meanwhile, the South Korean government made various efforts in order to attract Chinese tourists, resulting in more and more Chinese tourists flock in South Korea. In 2016, the number of Chinese tourists in South Korea reached 8 million and 60 thousand, and they became the main tourist group in South Korea, surpassing Japanese tourists for the first time (Korea National Tourism Organization, 2017). Nevertheless, increasing numbers of consumers choose to adopt the mobile payment tool instead of cash and credit cards in modern times with developed IT services. Furthermore, with the emergence of this phenomenon, most Chinese tourists have used the mobile payment tool such as Alipay in South Korea in recent years. Moreover, due to the increase in the use of the mobile payment tool, it results in the great change of consumption pattern of Chinese tourists who travel in South Korea. Nonetheless, there is no research on the characteristics and usage intention of the mobile payment of Chinese tourists who travel in South Korea. According to the above background and problems, this paper focuses on the status of the mobile payment of Chinese tourists in South Korea and substantive analysis using factors. In addition,

<sup>\*</sup> This is a partly abbreviated and modified article based on Master thesis by HE.

<sup>1</sup> First Author, M.A., Graduated School of EC, Kongju National University, Korea. Email: earily@naver.com

<sup>2</sup> Co-Author, Professor, Dept of Hotel and Tourism Management, Jeju International University, Korea. Email: agnes1101@hanmail.net

<sup>2</sup> Corresponding Author, Professor, Dept of Business Information Education, Kongju National University, Korea. Email: leejh@kongju.ac.kr

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according to the result of the empirical analysis, a strategic plan for the tourism industry in South Korea was put forward.

The purpose of this research was as follows:

Firstly, it is essential to comb the concept of the mobile payment, the review of Alipay and the market situation of Alipay in South Korea. In addition, arrange the Personal characteristics of consumers according to the prior benchmark research. On the other hand, it is considerably important to classify the service quality and the Personal characteristics of Alipay, and to empirically analyze the relationships between the characteristics through the discussion about the research on the mobile payment. Thirdly, it is indispensable to analyze the effect of the service quality and the Personal characteristics of Alipay on satisfaction and Trust. Finally, on the basis of the analytic result, analyze the development of the Alipay market and the use of Alipay in South Korea. Moreover, this paper will put forward some flexible strategic plans for the development of Alipay and SMEs (small and medium-sized enterprises) in South Korean.

### 2. Theoretical Background

Alipay is a leading third-party payment platform committed to providing simple, safe and fast payment solutions. Since established in 2004, Alipay has always placed Trust at the core of its products and services. Furthermore, it owns two independent brands including Alipay and Alipay Wallet. In addition, it has become the largest mobile payment manufacturer in the world since the second quarter of 2014. It has established strategic cooperative relations with many institutions including more than one hundred and eighty banks at home and abroad, VISA and Master Card. Moreover, it became the most Trusted partner of financial institutions in the field of electronic payment.

Alipay has more than 300 million real-name users. In addition, Alipay Wallet owns more than 270 million active users. What is more, daily mobile phone payment volume is more than 45 million, which is more than the global mobile phone payment peak record of 45 million and 180 thousand on Nov 11th, 2013. Furthermore, Alipay is a life service platform for everyone as the center and more than 450 million real-name users in Ant Financial. So far, it has become an open platform including multiple scenes and industries such as payment, life services, government services, social communication, financing, insurance and public welfare. In addition to providing such convenient basic functions as payment, transfer, and collection, it can also quickly complete the credit card repayment, and the payment of mobile-phone, water, electricity and coal fees. Additionally, people can enjoy the discounts of consumption, build a group of friends, easily manage money and accumulate credit.

AOS (Alipay Office Service) is a new means of

settlement among Alipay and KICC for Chinese visitors who travel in South Korea. Alipay has also signed a contract with smart card enterprises in South Korea in order to open the door of offline payment in South Korea. On the other hand, the users of Alipay only need to purchase foreign special Alipay T-money cards. It is simply to use public transportation in the Seoul Metropolitan Area such as Seoul and Gyeonggi-do as well as in Jeju Island. What is more, people can go shopping in the most coffee shops, Convenience stores, and cosmetics shops directly through swipe bank cards. The service is consistent with the trend that most tourists prefer independent travel instead of group travel. It is predicted that Alipay will play a greater and greater role in the circulation industry in South Korean. Alipay has reached cooperation with Kakao, and Kakao has established a mobile financial subsidiary called Kakao Pay. However, KakaoPay will get access to 34 thousand businesses of Alipay in South Korea and develop more mobile consumption scenes where Kakao Pay and Alipay can be supported at the same time. It means that South Koreans can use Kakao Pay and Chinese visitors also can use Alipay in these scenes at the same time. As shown in the <Table 1>.

Field		Offering company			
	Convenience Store	GS25, 7-11, C&U			
	Food shop	Starbucks, LOTTERIA, Mcdonalds			
	Cosmetic	The Face shop, TONYMOLY			
Offline	Bookstore	KYOBO			
Store	Mart	EMart, GS supermarket			
	Public transit	T-money Cards			
	Duty-free shop	Lotte duty-free, Shilla dutu- free			
	Airport	Electronic Tax-free			
	Online Duty free shop	Lotte duty-free, Shilla dutu- free, Shinsegae duty-free, DOOTA dutu-free			
Online	Hotel reservatio	Yanolja			
Store	B2C Shopping Mall	11st, interpark, Gmarket			
	Group buying	Wemakeprice, Kmall24			
	Luxury	MCM			

Table 1: Example of Alipay-supporting shops in South Korea

\* Sources: Author's analysis

#### **3. Research Model and Research Hypotheses**

The Quality of service mainly includes the Security of use Alipay, the Convenience of the system, the Interaction of the system and the availability of regional information. Research Model is shown in the [Fig.1].

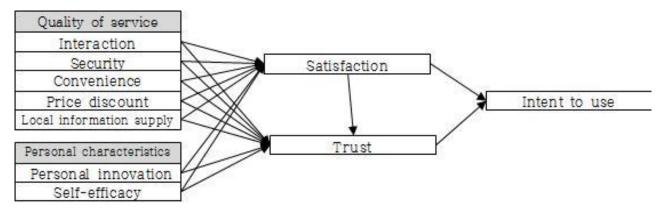


Figure 1: Research Model

For testing the hypotheses of social e-commerce between the hot competition, in order to satisfy the customers, Lee et al (2012). Through the study advance of Price discount, such as Convenience variable to investigate the relationship between and Satisfaction are analyzed, the results of the study Price discount and use Convenience has a positive effect on satisfaction. At the same time, the related research of Jeon (2009), The purchase intention and Trust of online consumers play important roles. Additionally, Security is a key psychological role for customers in the process of trading. Moreover, Users have positive impacts on the reliability of Security. At the same time, in the study of Lilin (2015) argues that Interaction are the main factors influencing the service quality, and in the empirical analysis in the study of consumers in the Internet environment, the use of software or web site, in the process of Interaction between sexual psychological satisfaction and Trust to the user as a positive impact. Based on the basis of the new study, this paper assumes that the service quality factors of Alipay are positively affecting the Satisfaction degree and Trust, and set up <hypothesis 1> and <hypothesis 2>.

**Hypothesis 1**: the factor of Service quality is positively affecting the Satisfaction degree.

**Hypothesis 2**: the factor of Service quality has a positive impact on Trust.

In the general study, the individual characteristics are generally divided into two factors: the Innovation and Selfefficacy of the individual. Individual innovation is mainly aimed at the consumer acceptance of new technology or service quickly to do the concrete definition of most scholars' study, Personal innovation as main variables for validation. In the study of the influence of consumers' smart phone acceptance of Choe (2011) the higher the Personal innovation ability, the higher the Intention of use to accept the new smart phone; In the study of Jeong (2013) individual innovation ability has a positive impact on the company's intention to use the intelligent information system. Self-efficacy is defined primarily by the ability of users to use or master new technologies at the same time. In addition, Nam (2007) study shows that the new technology attaches great importance to the consumer or the service of Self-efficacy, the consumer psychology of new technology or software of satisfaction and Self-confidence at the same time will also strengthen. Gu et al. (2019) insisted that. The results show that Self-efficacy has a positive effect on Satisfaction and Trust worthiness. Based on the aforementioned antecedent study, this paper sets <hr/>

**Hypothesis 3**: the individual characteristics have a positive impact on Satisfaction.

**Hypothesis 4**: Personal characteristics have a positive impact on Trust.

The concept of customer satisfaction is mainly about whether there is a satisfying experience (Oliver, 1980) for the consumption of goods or services that are used or consume dafter the use of the consumer. This is the same with the results of Dai and Lee (2018).

Wang (2015) of the study believes that customer satisfaction mainly include consumer expectations, the quality of the cognitive and Convenience, and think that satisfaction of ascension in the study at the same time, consumers Trust for goods or services will also increase.

Moreover, there are many related study argues that Trust is the consumer for a decisive factor in the process of consumption activities. Additionally, it has weakened the complexity, the ability of risk and fear. Hence, the influence factors of Trust are momentous. Marcella (1999) argues that the difference of Trust on final action play a decisive factor, at the same time, Bitner (1990) believes that in the study of customer satisfaction and Trust of consumers' Intention of use to buy and buy again play a positive role. Jin and Lee (2019) investigated the same research.

**Hypothesis 5**: satisfaction degree has a positive influence on Trust.

**Hypothesis 6**: the satisfaction degree has a positive effect on the use of the intention.

**Hypothesis 7**: Trust is positively affecting the use of intention.

Variable	Operational definition				
Interaction	the interact relationship forms between the Chinese tourists in South Korea, and the extent of activities between consumers.				
Protection safety	the safe protection for the consumers' transaction information and personal information by using safe and simple payment apps.				
Convenience	Chinese tourists in South Korea can access mobile payment apps quickly and easily.				
Price discount	Chinese tourists can get the products or services discounts by using the payment apps of mobile.				
Local in formation supply	supply the local tourism information and services.				
Personal innovation	Chinese tourists in South Korea are interested in new technologies or services and are active to use them.				
Self-efficacy	evaluate the effectiveness of consumers using mobile simple payment apps.				
Reliability	the information and service reliability of mobile payment apps for Chinese tourists in South Korea.				
Satisfaction	the using of the mobile simple payment apps to meet the expectations of Chinese tourists.				
Intention of use the Intention of use and possibility for Chinese tourists to use mobile payment apps to pay.					

# 4. Empirical Analysis

# 4.1. The Characteristics of the Research Object

In this research, it took the group with the experience in using Alipay in South Korean as the object for investigation. A total of three hundred and fifty questionnaires were reclaimed. After removing thirty-nine dishonest ones, it empirically analyzed three hundred and fifteen questionnaires finally. According to the demographic characteristics of the responders, there were one hundred and forty men (45%), and one hundred and seventy-one women (55%), which showed that the number of the women was greater than that of the men. The majority of respondents were twenty to thirty-nine years old, and the most respondents were college graduates. In terms of occupations, there were one hundred and twenty-seven freelancers (40.8%), accounting for the greatest proportion, and the average monthly income of the most respondents was between 4000 to 4999 yuan (41.5%). In addition, those with the experience in traveling in South Korean for more than

three times accounted for 60.2%. Those with the experience in using Alipay four to five times a month accounted for 45.3%. And Alipay was mainly used for the commodity settlement (43.1%) and currency-conversion (40.5%). Analysis of the measurement model as shown in the <Table 3>.

Table 3	Demographic	Characteristics
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Classificatio	on	Frequency	Percentage
	Male	140	45.0
Gender	Female	171	55.0
	Total	311	100
	Below 20s	38	100   12.2   36.0   42.8   7.7   1.3   100   13.5   33.1   41.5   11.9   100   18.0   36.0   40.8   3.9   1.3   100   2.6   30.5   41.5   11.3   14.1   100   5.1   32.5   62.4
	20s	112	36.0
Age	30s	133	42.8
/ go	40s	24	7.7
	50s or older	4	71 $55.0$ $11$ $100$ $3$ $12.2$ $12$ $36.0$ $33$ $42.8$ $4$ $7.7$ $1.3$ $11$ $100$ $2$ $2$ $13.5$ $23$ $33.1$ $29$ $41.5$ $7$ $11.9$ $11$ $100$ $5$ $18.0$ $12$ $36.0$ $27$ $40.8$ $2$ $3.9$ $1.3$ $11$ $100$ $2.6$ $5$ $30.5$ $29$ $41.5$ $5$ $11.3$ $11$ $100$ $5$ $5.1$ $21$ $32.5$ $24$ $62.4$ $11$ $100$ $5$ $21.9$ $41$ $45.3$ $7$ $24.8$ $5$ $8.0$ $11$ $100$ $34$ $43.1$ $3$ $4.2$ $9$ $9.3$ $26$ $40.5$
	Total	311	55.0   100   12.2   36.0   42.8   7.7   1.3   100   13.5   33.1   41.5   11.9   100   18.0   36.0   40.8   3.9   1.3   100   2.6   30.5   41.5   11.3   100   2.6   30.5   41.5   100   2.6   30.5   41.5   100   2.6   30.5   41.5   100   2.6   30.5   41.5   10.3   14.1   100   5.1   32.5   62.4   100   21.9   45.3   24.8   8.0   100
	High school graduate	42	13.5
	University student	103	33.1
Education	University (Bachelor's)	129	41.5
	Master's or higher degree	37	11.9
	Total	311	100
	Student	56	18.0
	Company employee	112	36.0
Joh	Entrepreneur	127	40.8
000	Official	12	3.9
	Other	4	1.3
	Total	311	18.0   36.0   40.8   3.9   1.3   100   2.6   30.5   41.5   11.3   14.1
	Under 2999	8	2.6
	Between 3000~3999	95	30.5
Average	Between 4000~4999	129	41.5
income	Between 5000~5999	35	11.3
	Over 6000	44	14.1
	Total	311	100
Visits to	The first time	16	5.1
	Twice times	101	32.5
Korea	Three times	194	62.4
Job Average income	Total	311	100
	1 ~ 3 times	68	21.9
Monthly	4 ~ 5 times	141	45.3
	6 ~ 10 times	77	24.8
	More than 10 times	25	8.0
	Total	311	100
	Merchandise payment	134	43.1
	In quury and account transfer	13	4.2
Purposes	Traffic Card	29	9.3
	Refunds	126	40.5
	Other	9	2.9
	Total	311	100

In order to find out whether all the variables in the research were Trust worthy, it analyzed the Trust. The Cronbach's Alpha value of all variables was over 0.8, thus it was possible to judge that all these variables were Trustworthy. In addition, in order to improve the fitting degree of the model, it tested and deleted the items in SMC which were less than 0.4. After deleting three items, it significantly improved the fitting degree of the model eventually. The fitting degree values of a final model were

all within the prescribed limits. They were as follows:  $\chi 2=1136.439$  (p=0.001, df=996), GFI=0.872, AGFI=0.855, NFI=0.845, IFI=0.978, CFI=0.977, RMSEA=0.021. Finally, all the variables in the research model except the Price discount were qualified. The analysis results of the deterministic factors of overall variables as shown in the <Table 4>, The Result of Hypothesis as shown in the <Table 4>.

Table 4: The analysis results of the deterministic factors of overall variables

Factors	Item	St.Est.	S.E.	t-value	p-value	CR	AVE
	V1	0.778	-	-	-		
	V2	0.699	0.075	12.061	***		0.654
Interaction	V3	0.714	0.070	12.334	***	0.904	
	V4	0.747	0.071	12.946	***		
	V5	0.732	0.072	12.671	***		
	V6	0.760	-	-	-		0.628
	V7	0.726	0.085	11.996	***		
Protection and safety	V8	0.646	0.079	10.682	***	0.894	
	V9	0.656	0.078	10.842	***		
	V10	0.718	0.078	11.863	***		
	V11	0.692	-	-	-		
	V12	0.664	0.101	10.175	***		
Convenience	V13	0.715	0.103	10.840	***	0.898	0.638
	V14	0.742	0.105	11.163	***		
	V15	0.733	0.097	11.063	***		
	V16	0.645	-	-	-		
	V17	0.644	0.122	9.266	***	0.892	0.623
Price discount	V18	0.713	0.121	9.998	***		
	V20	0.740	0.119	10.256	***		
	V21	0.707	0.107	9.935	***		
	V22	0.723	-	-	-		0.565
Local information augubly	V23	0.716	0.090	10.493	***	0.873	
Local information supply	V24	0.664	0.089	9.913	***		
	V25	0.691	0.087	10.232	***		
	V26	0.632	-	-	-		0.562
Demonal inner ation	V27	0.773	0.122	10.288	***	0.875	
Personal innovation	V28	0.710	0.118	9.764	***		
	V29	0.745	0.118	10.081	***		
	V30	0.728	-	-	-	0.897	0.620
Self-efficacy	V31	0.805	0.083	12.929	***		
Sell-ellicacy	V32	0.736	0.091	11.940	***		
	V33	0.770	0.085	12.453	***		
	V34	0.756	-	-	-		
	V35	0.726	0.070	12.392	***	0.906	0.658
Reliability	V36	0.689	0.068	11.733	***		
	V37	0.719	0.071	12.267	***		
	V38	0.735	0.068	12.544	***		
	V39	0.759	-	-	-		
Satisfaction	V40	0.763	0.075	13.361	***	0.912	0.675
	V41	0.732	0.081	12.768	***		

	V42	0.738	0.076	12.896	***		
	V43	0.776	0.072	13.603	***		
	V44	0.778	-	-	-	0.920	0.698
	V45	0.832	0.074	15.500	***		
Intention of use	V46	0.798	0.071	14.764	***		
	V47	0.807	0.073	14.952	***		
	V48	0.790	0.073	14.587	***		
$ \begin{array}{c} \mbox{R-squared of prediction mode} \\ \mbox{R-squared of prediction mode} \end{array} \begin{array}{c} \chi^2 = 621.371 \ (p = 0.000, \ df = 448), \ GFI = 0.872, \ AGFI = 0.850, \ NFI = 0.841, \ IFI = 0.950, \ CFI = 0.949, \ RMSEA = 0.039 \end{array} $							

Note) Set the predicted values of the parameters of detected variables in measuring models to 1.

# **5.** Conclusion

## 5.1. The Summary of the Result

First of all, it was confirmed that the Interaction of Alipay played a positive role in satisfaction and reliability. It meant that Alipay operators could quickly and positively solve them when users encountered problems to effectively improve the Trust and satisfaction of users on Alipay.

Secondly, the confirmation of the safety of Alipay played a positive role in satisfaction and reliability. When the development and operation department of Alipay effectively prevented the leakage or attack of the user information, it could improve the safety so as to further enhance the intention to use Alipay.

Thirdly, the Convenience of Alipay played the positive role in satisfaction and reliability. The more convenient and faster use of the software and the development of new functions could effectively promote the protection of users.

Fourthly, the price concession of Alipay did not play a positive role in satisfaction and reliability. In the initial stage of the market expansion of Alipay, it could create new users in a series of commercial ways such as the exemption of service fees and the discount of goods. However, there are many items returned to a stage of normal charge after the discount period. Hence, many users would choose the mobile payment tool with preferential treatment. Thus, for the operators, the continuous development of new promotion programs or preferential modes was an important means for the long-term maintenance of the users.

Fifthly, it was confirmed that Alipay to provide information in the area played a positive role in satisfaction and reliability. In addition, the relevant localized information provided by Alipay could help users effectively. Moreover, users' satisfaction and Trust about Alipay will be improved in the future.

Sixthly, the Personal innovation played the positive role in satisfaction and reliability. In other words, Chinese tourists in South Korea with high personalization could conveniently use these functions in the process of using Alipay.

Seventhly, Self-efficacy played a positive role in satisfaction and reliability. In other words, it was easy for those with very high Self-efficacy to accept new services or functions when Chinese tourists who travel in South Korea used Alipay.

Eighthly, the satisfaction on Alipay played a positive role in the related reliability. Chinese tourists who travel in South Korea were satisfied with the use of Alipay. What is more, Chinese tourists used it more frequently. It was believed that satisfaction was an essence tialfactor influencing reliability.

Ninthly, the satisfaction and reliability Alipay played a positive role in the use of intention. Satisfaction and reliability were related to re-usage. The related research had been carried out in many fields. It was expected that if Chinese tourists in South Korea were satisfied with Alipay, they would use Alipay more frequently.

### **5.2. Implications**

The result of this research could be summarized as follows: Firstly, interactivity, Security, Convenience, Local information supply and user interface played positive roles in satisfaction and reliability. To put it differently, they could directly or indirectly affect the intention to use. In order to let Chinese visitors easily use Alipay, it was necessary to develop and provide relevant content which was different from the existing functions.

Secondly, it was believed that the Convenience of Alipay played a positive role in reliability and satisfaction through the verification. Additionally, it is an important role in the increase of use rate. It played an important role in the development of functions of Alipay in the future to pay attention to the ease of use, the supply of several of practice malcontent and the convenient method to use. It not only put forward some meaningful plans for Alipay through the result of this research but provided some preference for other payment enterprises.

# 5.3. Limitations and the Future Research Plan

First of all, on the basis of the previous research, a research model was developed. However, there was the lack of there search on main characteristics and factors. Undeniably, it is necessary to increase more related researchers, and increase various variables about there search model from various aspects in the future research.

Secondly, the main groups of respondents were twenty to thirty-nine freelancers and office workers. It might be because the group at the age from this stratum was the main one to use Alipay. Never the less, with the continuous expansion of the mobile payment industry, more different ages of users from more stratums will constantly increase. Hence, it is necessary to analyze and study more different ages of users with more diverse occupations in the future research.

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