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Cheng, Chiang-Yu and Li, Eldon, "IDENTIFYING THE MOST PERSUASIVE MESSAGES TO CONVERT NON-MOBILE SHOPPERS INTO MOBILE SHOPPERS" (2014). *PACIS 2014 Proceedings*. Paper 145. http://aisel.aisnet.org/pacis2014/145

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IDENTIFYING THE MOST PERSUASIVE MESSAGES TO CONVERT NON-MOBILE SHOPPERS INTO MOBILE SHOPPERS

Abstract

Mobile shopping is getting more and more popular. However, the number of mobile users is not parallel to the number of mobile shoppers. The reason of this phenomenon may be that mobile shoppers frequently concern about security while conducting mobile transactions. The current study aims to explore Trust Transference Facilitators (TTF) that can be used to persuade non-mobile shoppers into mobile shoppers. Drawing on the model of argument and the persuasion principles, our study uncovers how TTF can be presented on the checkout page of an m-commerce app and why it has the potential to eliminate consumers' negative attitudes toward using credit card over-the-air.

Keywords: mobile shopping, the model of argument, the persuasion principles, trust transference facilitators.

1 INTRODUCTION

The percentage of website traffic coming from mobile devices increased from 17.5% in Q3 2012 to 23.1% in Q4 2012 (Walker Sands, 2012) and this growing trend is expected to overtake the other fixed-line connections (e.g., desktops) in 2014 to be the most common internet access route (Standage, 2013). Ironically, the number of mobile internet access does not parallel to the number of mobile shopping. Figure 1 illustrates the discrepancy between mobile for internet and mobile for shopping found in Europe, Asia, and America (Rakuten, 2012).

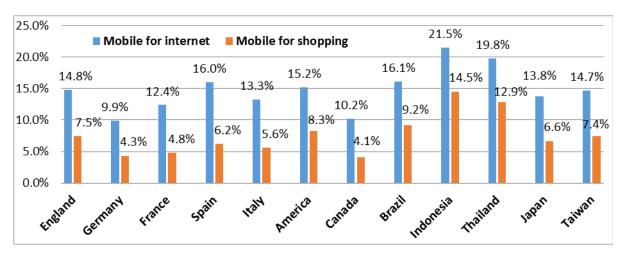


Figure 1. The difference between mobile for internet and mobile for shopping in 2012

Attributing the cause of such an inconsistency may be that mobile users frequently distrust security in mobile transactions, especially when they are requested to leave their credit card numbers on mobile phone for paying products or services without cards (Brandweiner, 2013). Thus, alleviating consumers' concerns about mobile transaction security is imperative for the proprietors of mobile shopping. However, a scrutiny of check-out pages in m-commerce apps (see Figure 2) reveals that proprietors provide consumers with no explanations regarding how their mobile transactions can be protected. As a result, consumers who have had online credit card shopping experiences may still refuse to use credit card for mobile shopping due to their security concerns about over-the-air transaction (Au & Kauffman 2008).

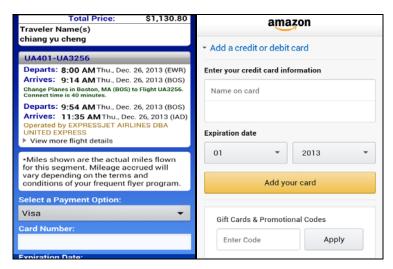


Figure 2. A snapshot of the credit card check-out page from United Airlines and Amazon

The credit card issuer, MasterCard (2013), also reported that security-related improvements, namely a greater assurance that mobile transactions are secure as well as enhancements to mobile payment security to improve consumers' confidence was ranked high among respondents. All these imply that events (e.g., consumers' risk perceptions) that occur near the end of a service encounter (e.g., making a mobile transaction) should be more impactful than earlier events on the overall shopping experience (Chase and Dasu, 2001) and such negative experiences need to be remedied as early as possible. Academic studies have explicitly indicated that online trust has the potential to affect mobile trust, meaning trust is transferrable from one entity to the other entity (Stewart, 2003). For example, Lin et al. (2011) found that trust in online brokerage services is positively related to initial trust in mobile brokerage services. Lu et al. (2011) identified that the level of trust a customer has in internet payment services positively affects her/his initial trust in mobile payment services offered by the same company. Although these studies highlight the likelihood of trust transference, none of them presents how trust can be transferred from online to mobile shopping in practice.

To ascertain the way of trust transference from online to mobile, the current study proposes the trust transference facilitator (TTF) which draws upon the model of argument (Toulmin, 2003) and the persuasion principles (Cialdini, 1993). The purpose behind the TTF is to eliminate consumers' concerns about the safety of electronic payments made on mobile devices which in turn increases higher acceptance of mobile transactions.

2 THEORETICAL BACKGROUND

2.1 The Model of Argument

Toulmin (2003) proposed the model of argument which asserts that a convincing argument should contain at least three elements, including claim, data, and backing. Claim element refers to a proposition being argued for, while data element pertains to the facts used to support the claim. As for backing element, it comprises the evidence that justifies the acceptance of the data. In the context of public health, for example, the claim argues that smokers who are smoking in public places should be prohibited. The supporting data consists of the fact that people who are exposed to secondhand smoke have a higher probability of falling chest cavity ills than the ones without secondhand smoke exposure. The backing provides the evidence for the validity of the data: the medical survey with one hundred lung cancer patients reveals that 80% of them are regularly exposed to nicotine smoke, while 20% of the others are not. Applying this idea to our research context, the claim-data-backing scenario can be that you don't need to worry about leaving your credit card number here (claim). Unlike other mcommerce apps use merely 1024 bits SSL encryption, our app protects every mobile transaction with the longest 2048 bits SSL encryption which is the same with desktop shopping (data). According to the evidence of the trustmark issuer, hackers will need to take an unreasonable amount of time to unscramble the protection if the encryption is long enough (backing). The claim-data-backing scenario assists us to understand the theoretical underpinning of the argument that persuade mobile shoppers to transfer their trust from online to mobile, but if one wants to understand how trust transference can be realized in practice she/he needs to identify the factors that affect it. These factors can be grasped by applying Cialdini's (1993) principles of persuasion.

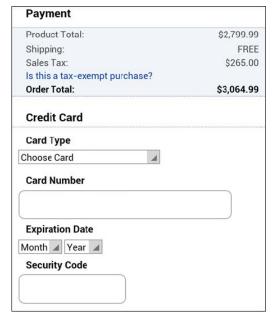
2.2 The Persuasion Principles

Cialdini proposed seven principles that persuaders can use to achieve the persuasion: reciprocity, commitment, liking, social proof, authority, contrast, and scarcity. Although the first three principles are prominent in the success of persuasion (Huang et al., 2006), we do not aim to explore the effects of mutual benefits (reciprocity), commitments by both persuading parties (commitment), feeling toward the persuader (liking), or informational social influence coming from others (social proof). Instead, the current study purports to explore the correspondence of the last three Cialdini's principles to the claim-data-backing scenario. *Authority* is the extent to which a persuader has a certain level of prestige and plays the role of a reliable information source. Recipients tend to believe that accepting

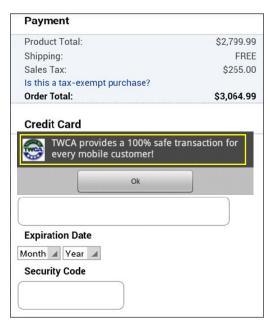
information from a persuader with sound reputation decreases the likelihood of making a wrong decision (Fuller et al., 2007). In mobile shopping context, the authority principle can be presented by the trustmark that claims how mobile transactions are expertly and prestigiously secured. *Contrast* pertains to a comparison that can be used to distinguish unlikeness of whatever is being compared. For example, if individuals first eat the sweet fruit and then the sour fruit, they will feel the second fruit to be more sour than they would had they not ate the sweet fruit first. Thus, applying the contrast principle in mobile transactions can inform consumers that an m-commerce app with 2048 bits SSL has longer data encryption than the one with 1024 bits SSL. Scarcity refers to objects of persuasion that are both valuable and rare. It has been shown that objects and opportunities become more valuable as they become less available (Mazis 1975). The scarcity principle here supports why 2048 bits SSL encryption is safer than 1024 bits SSL encryption, that is, the longer the data encryption is provided, the more times hackers will need to break into the protection. Thus, encrypted credit card number is seldom to be descrambled even it is transited over the air.

3 EXPERIMENTING THE MOST PERSUASIVE TTF

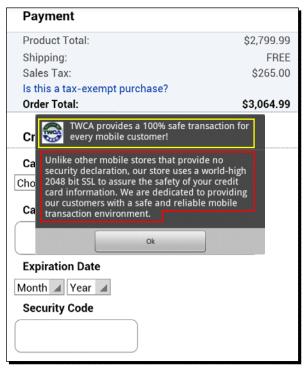
An experiment with one treatment (i.e., persuasion message) was conducted to explore the likelihood of trust transfer from online to mobile. The treatment has three levels each of which denotes different strengths of the persuasion message (see Figure 3). The first level of the message is regarded as the weakest persuasion because it presents only authority principle to the recipients. As shown in the upper right of the figure, the TWCA trust mark is presented by a simple sign together with its proposition but such authority principle shows no specific explanation about how can mobile shoppers believe that the proposition given by the trust mark is true. In the lower left of the figure, the second level of the message presents not only authority principle to the recipients but also presents contrast principle to them (i.e., authority-contrast). Contrast principle here complements to authority principle revealing how a 100% safe transaction can be assured by the encrypted m-commerce app but not by unencrypted ones. Although this addition assists mobile shoppers to judge the truthfulness of the trust mark proposition, it is unable to dispel their suspicions in why shopping at the encrypted m-commerce app is 100% safe. As shown in the lower right of the figure, the third level of the message is expected to have the strongest persuasion because it further explains why the encrypted m-commerce app is 100% safe (i.e., authority-contrast-scarcity), that is, if one wants to crack 2048 bits SSL encryption, she/he will need unreasonable time to do so (e.g., a trillion years). Thus, cracking an encrypted mcommerce app is unlikely and leaving credit card number out there is inarguably safe.

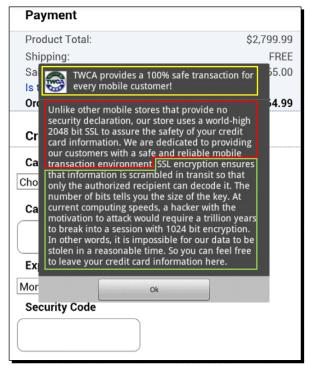






Level 1: authority only





Level 2: authority-contrast

Level 3: authority-contrast-scarcity

Figure 3. The treatment levels

3.1 Participant Selection

Since our goal is to validate the best TTF that persuades non-mobile credit card shoppers into mobile credit card shoppers, we need to screen eligible participants and invite them to participate the experiment. The eligibilities of the participants are (1) They must be a credit card holder, (2) They must carry at least one smart phone with them, and (3) They must have online desktop shopping experiences using credit cards. Consumers who have used credit card to pay for the products at the check-out counter of the physical mall are confirmed to be a credit card holder. We greet these credit card holders to indicate our intention and research purpose and ask them if they would like to join the experiment. Credit card holders who would like to participate the experiment were requested to answer the following questions: (1) Do you carry a mobile phone with you? (2) Have you had any credit card shopping experience on your desktop? (3) Have you had any credit card shopping experience on your mobile phone? If not, what are the reasons that you do not use a credit card to shop on your mobile phone? Respondents who answered questions 1 and 2 with "Yes," and question 3 with "did not have mobile credit card shopping experience because of security concerns" were divided into the group of non-mobile credit card shopper. Respondents who answered questions 1 through 3 with "Yes," were categorized into the group of mobile credit card shopper. Respondents who answered question 1 or question 2 with "No," were disqualified. An email with a QR-Code (Quick Response Code) was sent to the participants to explain the procedure of the experiment. First, they were requested to complete the questionnaire that measures their ex-ante attitude toward using credit card for mobile check-out. Second, they needed to download and install the virtual mcommerce app inside the QR Code. Third, they were asked to visit the m-commerce app and choose a high-price digital camera they wanted to purchase. High-price digital cameras were chosen as the researched product because we expected that the more participants had to pay for the product, the more susceptible they would be to the persuasion message (see Figure 4).

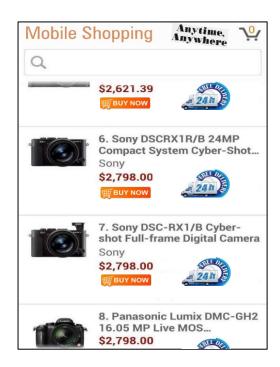


Figure 4. The virtual m-commerce app

Fourth, participants needed to consummate the purchase with a credit card. Their decisions were to be based on the persuasion message they received at the check-out page, which varied by the treatment levels (see Figure 3 again). To ensure that the participants have attracted by the persuasion message, they were requested to complete another questionnaire that asked them to choose the correct message (which they had just seen) in each of the three treatment levels. They could not continue the experiment until they did so. Finally, the participants were presented with the ex-post attitude and demographic questionnaires. Note that the m-commerce app with different strengths of the persuasion message was randomly downloaded. Participants were unable to control which version of the mcommerce app they would like to download. For example, a participant may be assigned to download the m-commerce app with moderate strength message, while another participant may be assigned to download the m-commerce app with strong message. To avoid experimental biases, participants who took the experiment for more than once (as tracked by IMEI, International Mobil Equipment Identity) were excluded from the analyses. All participants received a \$10 reward for their participation. To further motivate them to concentrate on the message, they were told before the experiment that one of them would be selected by lottery to win an Android tablet if they fulfill the experimental requirements.

4 MEASUREMENT FOR TRUSTING ATTITUDE

To monitor trust transference, both ex-ante and ex-post attitudes were measured using 7-point Likert scale items adapted with minor modifications from Joo et al. (2003), where 1 meant "strongly disagree" and 7 meant "strongly agree." Ex-ante attitude evaluates participants' original attitudes toward using credit card for mobile payment, while ex-post attitude evaluates participants' updated attitudes after they were given the persuasion messages (see Table 1). Trust ascension is said to occur if the average score of ex-ante attitude is significantly lower than the average score of ex-post attitude, while trust attenuation arises when the average score of ex-ante attitude is significantly higher than the average score of ex-post attitude. The insignificant difference between the two attitudes represents trust unchanged. Although participants' ex-post attitudes may be susceptible to the persuasion messages they receive, their knowledge about SSL encryption might affect their acceptance of that messages. We therefore controlled for such knowledge by asking participants to answer the question

"The SSL encryption is operated by an m-commerce app rather than a third party." For those who answered "YES" were categorized as correct group, whereas those who answered "NO" were categorized as incorrect group.

Construct	Measure (for mobile credit card shoppers)	Loading	AVE
Ex-ante attitude (EAA)			
composite reliability=0.79			
EAA1	Based on my experience, the transaction security assured by the m-commerce app I have shopped increases my confidence in using a credit card out there.	0.85	0.57
EAA2	Based on my experience, the transaction security asserted by the m-commerce app I have shopped alleviates my worries about using a credit card out there.	0.64	
EAA3	Based on my experience, the transaction security guaranteed by the m-commerce app I have shopped effectively reduces my concerns about using a credit card out there.	0.75	
Construct	Measure (for non-mobile credit card shoppers)	Loading	AVE
Ex-ante attitude (EAA)			
composite reliability=0.90			
EAA1	Even I have never used my credit card to buy something from my mobile phone, I believe that the transaction security assured by any m-commerce app can increase my confidence in using a credit card out there.	0.81	0.75
EAA2	Even I have never used my credit card to buy something from my mobile phone, I believe that the transaction security asserted by any m-commerce app can alleviate my worries about using a credit card out there.	0.99	
EAA3	Even I have never used my credit card to buy something from my mobile phone, I believe that the transaction security guaranteed by any m-commerce app can effectively lessen my concerns about using a credit card out there.	0.77	
Construct	Measure (for mobile credit card shoppers)	Loading	AVE
Ex-post attitude (EPA)			
composite reliability=0.76			
EPA1	The transaction security assured by the m-commerce app increases my confidence in using a credit card out there.	0.69	0.51
EPA2	The transaction security asserted by the m-commerce app alleviates my worries about using a credit card out there.	0.83	
EPA3	In general, the credit card transaction security advocated by the m-commerce app is trustworthy.	0.60	
Construct	Measure (for non-mobile credit card shoppers)	Loading	AVE
Ex-post attitude (EPA)			
composite reliability=0.97			
EPA1	The transaction security assured by the m-commerce app increases my confidence in using a credit card out there.	0.96	0.93

EPA2	The transaction security asserted by the m-commerce app alleviates my worries about using a credit card out there.	11 46	
EPA3	In general, the credit card transaction security advocated by the m-commerce app is trustworthy.	0.96	

Table 1. Measurement items

5 ANALYSES AND RESULTS

Table 2 summarizes the participant characteristics. Of 360 participants, 44.72% were male and 55.28% were female. 35.28% of them were office workers and 29.17% were students. 58.61% of them were in the 20 to 30 year age group. Undergraduate is the most prevalent degree (50.83%) followed by the postgraduate degree (30.56%).

Measure	Items	Frequency	Percentage %
Gender	Male	161	44.72
	Female	199	55.28
Age	Under 20	56	15.56
	20-25	89	24.72
	26-30	122	33.89
	Over 30	93	25.83
Occupation	Office worker	127	35.28
	Student	105	29.17
	Freelancer	67	18.61
	Others	61	16.94
Education	Junior school	31	8.61
	Senior school	67	10.00
	Undergraduate	183	50.83
	Postgraduate	110	30.56

Table 2. Demographics

Preliminary data screening was conducted before the formal analysis. As summarized in Table 1, the composite reliabilities of the attitude constructs exceeded 0.76. All the items listed in the table exhibit loadings greater than 0.60 within their respective constructs. The average variance extracted (AVE) for each construct were greater than 0.51. Table 3 shows that the correlation between the pair of constructs was less than the corresponding AVEs (diagonal values). Thus, both criteria for convergent validity and discriminant validity were met (Hair et al., 2006). In addition, manipulation check was conducted to test whether the levels of message strength differ on the ex-post attitude. Participants were asked to rate the statement of perceived message diagnosticity (Jiang and Benbasat 2007): "The persuasion message is helpful for me to understand how a credit card transaction is secured by the m-commerce app." This statement was rated on a Likert scale item, where 1 means "strongly disagree" and 7 means "strongly agree." As shown in Table 3, message strength was successfully differentiated. Participants indicated that more understanding was available on the check-out page in strong persuasion than in the moderate and low persuasions.

Construct (mobile shoppers)		AVE	EAA	EPA		
Ex-ante attitude		0.57	0.75			
Ex-post attitude		0.51	0.44	0.71		
Construct (non-mobile shoppe	rs)	AVE	EAA	EPA		
Ex-ante attitude		0.75				
Ex-post attitude			0.18	0.96		
Manipulation check (mobile shoppers): perceived message diagnosticity						
Strong persuasion (authority-	Moderate persuasion		Low persuasion	l		
contrast-scarcity) (authority-contr		(authority)				
Mean: 6.42 / Std: 0.54	Mean: 6.32 / Std: 0.3	7	Mean: 5.87 / Std: 0.65			
F(2, 177)=18.37, p<0.001						
Manipulation check (non-mobile shoppers): perceived message diagnosticity						
Strong persuasion (authority-	Moderate persuasion	persuasion Low persuasion		l		
contrast-scarcity)	(authority-contrast)		(authority)			
Mean: 6.10 / Std: 0.47	Mean: 4.51 / Std: 0.4	8	Mean: 3.15 / Std: 0.57			
<i>F</i> (2, 177)=130.82, <i>p</i> <0.001						

Table 3. Discriminant validity tests and manipulation check

To test trust transference, we performed a two-way ANOVA (see Table 4). The results revealed that the main effect of message strength was significant only in non-mobile shopper group (F=587.596, p<0.001), while the interaction between message strength and SSL knowledge was not significant in both mobile and non-mobile shopper groups. For this reason, one-way ANOVA was consecutively conducted for the treatment of message strength. The results indicated that ex-post attitudes differed significantly across the three types of message strength (F=552.765, p<0.001). For these message strengths, authority-contrast-scarcity condition was associated with significantly more positive attitudes than the other two conditions (see multiple comparisons in Table 3). Regarding to the transference from ex-ante attitude to ex-post attitude, the three types of message strengths in mobile shopper group were unable to change participants' attitudes. However, they were found to change participants' attitudes in non-mobile shopper group. Such attitude ascension was greatest in the authority-contrast-scarcity condition (i.e., attitude difference: -3.57).

Two-way ANOVA test (mobile shopper)					
Source	SS (Type III)	Df	MS	F	
Intercept	7232.67	1	7232.67	38757.95	
Message strength	0.92	2	0.46	2.45	
SSL knowledge	0.01	1	0.01	0.03	
Message strength× SSL knowledge	0.49	2	0.25	1.32	
Error	32.47	174	0.19		
Corrected total	33.88	179			
Two-way ANOVA test (non-mobile shopper)					
Source	SS (Type III)	Df	MS	F	
Intercept	3642.00	1	3642.00	16173.66	
Message strength	264.63	2	132.32	587.60*	

SSL knowledge	0.85	1		0.85	3.75
Message strength× SSL knowledge	2.34	2		1.17	5.20
Error	39.18	174		0.23	
Corrected total	307.00	17	9		* p<0.001
One-way ANOVA test (non-mobile sho	opper)				
Source	SS (Type III)	Homogeneity	Df	MS	F
Intercept	3642.00	F=3.43	1	3642.00	15214.93
Message strength	264.63	$df_1=2$	2	132.32	552.77*
Error	42.37	$df_2 = 177$	177	0.24	
Corrected total	307.00	p=0.03	179		* p<0.001
Multiple comparison (non-mobile sho	opper)				
Turkey HSD condition (I)	Comparison	Mean difference (<i>I-J</i>)		95% confidence	
	condition (J)			int	terval
				Lower	Upper
				bound	bound
1. Authority (mean: 3.06)	2	-1.3	6*	-1.57	-1.16
	3	-2.9	7*	-3.17	-2.76
2. Authority-contrast (mean: 4.42)	1	1.30	6*	1.16	1.57
	3	-1.6	1*	-1.81	-1.40
3. Authority-contrast-scarcity (mean:	1	2.97*		2.76	3.17
6.02)					
* p<0.001	2	1.61*		1.40	1.81
Trust transference test (mobile shoppe	Ex-ante	Ex-post	Difference	<i>t</i> -value	Transfer
Trust transference test (moone snoppe	attitude	attitude			status
Authority	6.31	6.32	-0.01	-0.09	unchanged
Authority-contrast	6.36	6.43	-0.07	-1.36	unchanged
Authority-contrast-scarcity	6.19	6.26	-0.07	-9.42	unchanged
Trust transference test (non-mol	bile Ex-ante	Ex-post	Difference	<i>t</i> -value	Transfer
shopper)	attitude	attitude			status
Authority	2.23	3.01	-0.78	-6.00*	ascension
Authority-contrast	2.31	4.42	-2.11	-16.02*	ascension
Authority-contrast-scarcity	2.45	6.02	-3.57	-32.12*	ascension
					* p<0.001

Table 4. The experiment results

Although there are many other ways of mobile payment (RFID, e-wallet, etc.), credit card is so far the easiest way to check-out over the air, that is, consumers can simply make a mobile purchase by entering credit card numbers on their mobile devices. Ironically, the number of mobile internet access does not parallel to the number of mobile shopping, thus how to convert non-mobile shoppers into mobile shoppers is essential, especially for those who are concerning about transaction security. The current study is one of the first to explore the likelihood of trust transference from online to mobile. The three levels of message strength were used to investigate their different effects on trust

transference. Authority-contrast-scarcity condition was the most effective in persuading non-mobile shoppers into mobile shoppers, followed by authority-contrast and authority conditions. The following summarizes research findings and their implications:

First, TTF was found to persuasive for non-mobile shoppers but not for mobile shoppers. As a result, experienced mobile shoppers should rely on self-empirical experiences to evaluate the credibility of persuasions rather than on other information sources. This is consistent with the notion of Hoch and Ha (1986) that consumers frequently treat the persuasion as a hypothesis about the persuading subject and actual experience of that subject provides consumers the opportunity to evaluate the trustworthiness of that hypothesis. In other word, even the strength of authority is lower than that of authority-contrast and authority-contrast-scarcity, it could also receive high ranking by experienced mobile shoppers. Proprietors are therefore suggested to minimize disturbance of their check-out pages, because authority principle is strong enough for experienced mobile shoppers. Conversely, presenting authority-contrast-scarcity principle to inexperienced mobile shoppers is necessary because they rely on objective evidence to avoid making a wrong decision.

Second, SSL knowledge (either it is right or wrong) presented no interaction with message strength in both shopper groups. This means that the evaluation of message persuasiveness is not explicitly intervened by shoppers' understanding of SSL, but is implicitly evaluated by shoppers each time when they are requested to show credit card numbers. For experienced mobile shoppers, they rely on prior experiences to guide the decision. For inexperienced mobile shoppers, the same decision depends on information acquisition immediately giving by a persuader. As consumers' self-experiences are a more important determinant of subjective knowledge than objective knowledge (Park et al., 1994), proprietors are therefore suggested not to be harassed by educating accurate knowledge for shoppers with different SSL understandings, instead, they should focus on providing shoppers with insightful messages. Authority principles is found to be persuasive enough for mobile shoppers, while authority-contrast-scarcity principle is identified to be the most persuasive principle for non-mobile shoppers.

Third, presenting information for the right recipient at an appropriate time is considered to be important to consumer information processing (Adaval, 2001). For those who worry about the security of using credit card over the air, the proposed TTF is suggested to be prompted at the check-out page of any m-commerce app so that non-mobile shoppers are able to contrast the receiving persuasion messages to see whether that messages are the same with the ones they have ever seen from desktop online shopping. Therefore, the implementation of TTF at the check-out page of an m-commerce app not only diminishes non-mobile shoppers' concerns about credit card security but also assists them transferring their trust from online credit card shopping to mobile credit card shopping.

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