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Factors Driving Consumers to Purchase Clothes through E-commerce in Social Networks

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Abstract: Shopping for clothes online and joining social networks are becoming increasingly common activities among Thai people. The objective of this research was to study purchasing behavior of customers who buy clothes through the e-commerce system of social networks. The total sample included 412 respondents. This research collected data via questionnaires. Statistics used was factor analysis. The research results showed that most of the respondents exchange data using facebook. They exchange information about clothes on the internet by reading information from other users. Respondents most frequently buy casual clothes and bags from small retailers on the Internet. The most important reason to buy clothes online is convenience; these clothes have no distributors in Thailand. Factors driving consumers to purchase clothes through e-commerce in social networks included the influence of the social network, demand-driven clothing, clothing diversity, convenience and security of ordering systems and discounts.

Key words: Clothes, electronic commerce, online, social network

INTRODUCTION

One cannot deny that today the internet plays an important role in the daily lives of people throughout the world, including the people of Thailand. In its percentage of internet users, Thailand has come to be ranked 7th in the Association of Southeast Asian Nations (ASEAN) group, after Singapore, Malaysia, Brunei, the Philippines, Vietnam and Indonesia (TechinAsia, 2013). Of Thailand's 67 million people, internet users account for 17.69 million (26.4%), resulting in a business world of e-commerce that has created extensive channels for business operations. Today, e-commerce has become a popular type of business operation and clothing has become a highly popular internet purchase.

As a consequence of the use of the internet in e-commerce, internet users can create content for the exchange of information, at both the individual and group levels, enabling people to befriend others and share matters of interest such that an internet society, or "social network," is formed. The popular trend of social networking has been pronounced in Thailand through use of the internationally popular social networking website, facebook, with more than 14 million users (Socialbaker, 2013). According to Socialbaker (2013), a website for ranking and collecting statistics on social media, Bangkok is the city with the most facebook users in the world with 12.8 million accounts participation in social networks has spawned virtual communities that grow rapidly. The way in which news is exchanged through this type of word-of-mouth has facilitated rapid news propagation and viral marketing. The media have also highly affected retail trade and product image

(Flavian and Guinaliu, 2005). Presently, e-commerce business operations employ social network applications to create customer networks and trade networks by opening distribution in terms of customer-to-customer (C2C) trade via web boards, blogs, discussion forums and other social network channels.

Due to the popularity among Thai people of e-commerce for clothing purchases, as well as that of the aforementioned social networks, the purchasing behavior of customers buying clothing through e-commerce in social networks and factors affecting consumer clothing purchases through e-commerce in social networks have become issues worthy of investigation. Even though there has been considerable research regarding online clothing purchases (e.g., Goldsmith and Goldsmith, 2002; Park and Stoel, 2002; Xu and Paulins, 2005; Fogel and Schneider, 2010; Jegethesan et al., 2012), few studies have focused on consumer clothing purchase through e-commerce in social networks. Therefore, this study will address this gap by examining clothing purchases through e-commerce in social networks.

Conceptual framework: Previous studies have reported many factors that affect decisions on clothing purchases, such as style and quality (O'Cass, 2000; North et al., 2003; Sondhi and Singhvi, 2006), brand (Carrigan and Attalla, 2001; Park and Stoel, 2005; Jegethesan et al., 2012) and the availability of brand diversity and clothing diversity (Kim et al., 2003). Cowart and Goldsmith (2007) discovered that brand and modernity were positively related to online clothing purchase.

Previous researchers (O'Cass, 2000; North et al., 2003; Lee and Littrell, 2005; Lester et al., 2006; Xu and Paulins, 2005; Sondhi and Singhvi, 2006) have reported that price is the crucial purchasing decision factor for clothing. Kim et al. (2003) discovered that price reasonability was the most important factor affecting online purchasing decisions. Cowart and Goldsmith (2007) found that price was negatively related to online clothing purchase. Furthermore, online shoppers are likely to think that the prices of products in online shops are often lower than in brick-and-mortar stores (Grewal et al., 2003).

Ease in ordering products, the ability to check product status at all times and punctual product delivery are vital factors for consumers in the online purchase of products (Cao *et al.*, 2003; Jiang and Rosenbloom, 2005; Lee and Littrell, 2005; Park and Kim, 2007). In addition to fashion, buyers required availability in the sellers' stock; this influenced both the attitudes and the intentions toward online clothing purchases (Lee and Littrell, 2005; Park and Kim, 2007).

Since customers do not know beforehand whether an item they order online will be as they desire (Garbarino and Strahilevitz, 2004; Nitse et al., 2004), online shoppers want return policies clearly revealed on the websites of online merchants (Then and Delong, 1999). Consistent with previous research, Siddiqui et al. (2003) found that a clearly stated return policy stimulates consumers to purchase apparel products online. When purchasing clothing online, consumers consider a number of factors, including how the item will look on the body (Cho and Workman, 2011). Therefore, visual apparel presentation helps consumers make purchase decisions (Park and Stoel, 2002).

Credit card online payment security is a crucial factor in online clothing purchases (Siddiqui *et al.*, 2003; Xu and Paulins, 2005). According to previous research (Chen and He, 2003; Yoh *et al.*, 2003), worries about online security of internet transactions has prevented online users from shopping online. Previous research supports this notion, including Kwon and Lee (2003), who discovered that customers who felt more anxiety about payment security tended to purchase fewer products via online methods. Similarly, Szymanski and Hise (2000) found that customers' perception of the financial security level was related to satisfaction with online product purchasing.

A promotion acts as an abrupt economic enticement to buy a product (Honea and Dahl, 2005; Oliver and Shor, 2003). Promotions enable consumers to purchase and be satisfied more easily (Darke and Dahl, 2003; Oliver and Shor, 2003). Online shoppers are likely to think that prices of products in online stores are often lower

than in brick-and-mortar retail stores (Grewal *et al.*, 2003). Thus, sellers of online products should offer various sales promotions, such as premiums, discounts and free product delivery, to attract online product buyers (Oliver and Shor, 2003; Park and Lennon, 2009).

Word of Mouth (WOM) refers to communication about products and services among people who are independent of the firm providing the products and services (Jalilvand and Samiei, 2012). Increasingly, WOM happens in the public domains of online social networks (Ho and Dempsey, 2010). Chen and Xie (2008) suggested that eWOM is a new element of marketing communication that could help consumers recognize which products are appropriate in different situations. Marketers have utilized social networking sites such as facebook, linkedin and twitter in order to create awareness, interest and eventually product purchase (Coulter Roggeveen, 2012). Blogs, message boards, chat rooms and discussion forums on social network sites such as facebook and my space provide feedback and evaluation tools for consumers (Dellarocas, 2003; Pan and Chiou, 2011). Park and Cho (2012) found that clothing customers exchanged information by using social networking and Thomas et al. (2007) discovered that sub-group communities initiated by consumers within the online community of a social network were interested in fashion. Park and Cho (2012) said that the criticisms and discussions on clothing brands, designers and retailers allowed social networks to become information centers in which word-of-mouth can carry influence. Chevalier and Mayzlin (2006) found that marketers have great incentive to engage in promotional chat and can conceal their promotions as client suggestions. Therefore, marketers aware of the need to generate C2C should be word-of-mouth by offering rewards such as free products, coupons and discounts (Ryu and Feick, 2007).

METHODS

Questionnaire design and data collection: Based on a thorough literature review, a self-administered questionnaire was developed. The questionnaire comprised 3 sections. The first included questions relating to demographic information about the participants. In the second part, respondents were asked to provide information on their clothing purchase behavior through e-commerce in social networks, such as frequency of buying, type of clothes and type of retailers. The third part which included 35 items, assessed the respondent's opinion toward factors that drive consumers' clothing purchases through e-commerce in a social network. Respondents were asked to rate the Table 1: Measuring instruments for factors driving the purchase of clothing through e-commerce in a social network

No.	Item	Range				
1	Social networks are an option when searching for information about the clothes you want	1	2	3	4	5
2	Members in a social network come together in sub-groups of a social network to exchange information, knowledge and methods of using clothes	1	2	3	4	5
3	Members can check information about clothes by asking other members of their social network who have this knowledge	1	2	3	4	5
4	In selecting clothes, you always ask the opinion of other members in your social network	1	2	3	4	5
5	Other members in your social network take part in suggesting clothes that might interest you	î	2	3	4	5 5
6	The clothes that you choose to purchase often come from your social network	1	2	3	4	5
7	Word-of-mouth among members in your social network is trustworthy enough to influence your purchasing of clothes	1	2	3	4	5
8	Social networks help in accessing details about clothes easily and quickly	1	2	3	4	5
9	Sharing information about clothes, how to use them and the results of using them through videos on social networks (e.g., through facebook or youtube) has influenced your choices about buying clothes	1	2	3	4	5
10	The clothes have the quality that you desire	1	2 2	3	4	5
11	The clothes have the same features, condition and size that you desire and that you expected based on the information you received	1	2	3	4	5
12	There is variety in brands	1	2	3	4	5
13	There is variety in size	1	2	3	4	5
14	There is variety in clothing types	1	2	3	4	5
15	Clothes that sell online are trendy	1	2	3	4	5 5 5
16	There are realistic pictures of clothes on the website	1	2	3	4	5
17	The clothes are brand-name clothes	1	2	3	4	
18	The presentation of clothes online is realistic	1	2	3	4	5 5 5
19	The clothes have a price that is appropriate for the quality	1	2	3	4	5
20	The clothes sold online are cheaper than those sold through other channels	1	2	3	4	5
21	The clothes have a wholesale and retail price (discounts available if much is purchased)	1	2	3	4	5
22	Payment online is safe	1	2	3	4	5
23	Many methods of payment are available	1	2	3	4	5 5 5
24	It is convenient and fast to order clothes	1	2	3	4	5
25	The website is famous and has a good reputation	1	2	3	4	5
26	Many methods are available for ordering clothes, such as online, telephone, e-mail and mail	1	2	3	4	5
27	Customers can check the status of the delivery at all times (sellers provide a package number so customers can check with the post office)	1	2	3	4	5
28	The shop has many methods for sending clothes, such as regular or express mail	1	2	3	4	5
29	Confirmation is provided by the owner of website that payment is correct.	1	2	3	4	5
30	Free gifts are offered	1	2	3	4	5 5 5
31	Discounts are offered. For example, a 5% discount is provided on orders of THB \$1,000 or more	1	2	3	4	
32	The website provides a guarantee of exchange or return if the clothing received is incorrect	1	2	3	4	5
33	Sellers take responsibility in cases where the customer is not satisfied with the clothes or the order is wrong.	1	2	3	4	5
34	Discounts are provided for clothes that are not in the latest fashion	1	2 2	3	4	5 5
35	The clothes that you want are available in stock	1	2	3	4	5

Please use the scale to rate the importance of the following factors that you think affect your purchase of clothes through e-commerce in a social network (ranging from 1: Least important to 5: Most important)

importance of 35 items on a 5-point Likert scale where 5 was most important and 1 was least important (Table 1). For this research, a questionnaire was collected from respondents in Bangkok who have experience in purchasing clothes online in social networks. The total number of samples collected was 412.

Data analysis: This research applied factor analysis to determine which factors consumers considered to have an effect on consumer clothing purchase through e-commerce in a social network.

RESULTS

Demographic profile of samples: According to the study sample of 412 social network users, most users were female, accounting for 81.6; 63.6% were 26-35 years old; 70.4% had the educational level of a bachelor's degree; 75.0% were single; 38.1% had a maximum occupation

level of a private company employee; and 43.7% had an income between THB \$ 10,001 and THB \$ 15,000 (Table 2).

Consumer behavior of purchasing clothes through e-commerce in social networks: As can be seen from Table 3, most samples exchanged news and information through facebook, the most popular social network website in Bangkok (56.3%) and secondarily through web boards (25.7%). Most participants exchanged clothing news information on the internet by reading information from other users (77.9 %) and sharing their opinions by replying to enquiries or other users' blogs (12.9%). The participants mostly purchased casual clothing from sub-sellers on the internet (33.5%) and they purchased bags, work clothes, sweaters and evening dresses which accounted for 26.0, 13.3, 8.5 and 6.5%, respectively. Participants purchased imported products without distributors in Thailand (32.1%) and some purchased branded products (23.7%). Most participants had clothing Table 2: Demographic profile of respondents

Items	Percentage
Gender	
Female	81.6
Male	18.4
Age (years)	
16-25	27.9
26-35	63.6
36-45	7.3
46 and older	1.2
Education level	
Less than bachelor's degree	15.5
Bachelor's degree	70.4
Graduate degree	14.1
Marital status	
Single	75.0
Married	25.0
Occupation	
College student	13.3
Owner of business	7.8
Company employee	38.1
State enterprise employee	31.1
Other	9.7
Marital status	
Single	75.0
Married	25.0
Monthly income (THB \$)	
Less than THB \$10,000	23.3
THB \$ 10,001-THB \$ 15,000	43.7
THB \$ 15,001-THB \$ 30,000	25.2
THB \$ 30,001-THB \$ 50,000	6.1
THB \$ 50,001 or above	1.7

Approximately THB \$ 33 = \$1US

purchase frequency of at least once a month (58.3%), followed by 1-2 times per month (35.4%) and more than 2 times per month (6.3%). The maximum expense for clothing purchases each time ranged between THB \$ 301 and THB \$ 500, accounting for 48.3% of the participants and secondarily, between THB \$ 501 and THB \$ 1,000 (34.7%). Most participants decided to purchase clothing by themselves (68.4%) but some searched for information through social networks (16.0%) and the smallest proportion consulted friends who were acquainted with social networks (3.6%). Participants decided to purchase clothing from sub-sellers on the internet mostly for convenience (44.9%) and secondarily due to the easy access channels (31.3%). Most participants purchased clothing through sub-shop websites (75.0%), some through web boards (13.9%) and the smallest proportion through blogs (5.3%) (Table 3).

Consumer-considered factors affecting consumer clothing purchase through e-commerce on social networks: Principal Component Analysis (PCA) with varimax rotation was used to group the 35 factors driving consumer purchases of clothes through e-commerce on

Table 3: Consumer behavior of purchasing clothes through e-commerce in social networks

Transactions	Percentage
Channels of information exchange	
Facebook	56.3
Web board	25.7
Blog	15.1
Amazon	1.2
Google	1.0
Miscellaneous websites	0.7
Methods of information exchange	
Reading information from other users	77.9
Sharing opinions by replying to enquiries or other	12.9
users' blogs	
Asking or writing new blog posts to provide information	8.2
or acquire information from other users	
Finding information from Google websites	1.0
Types of clothing purchases	
Casual clothing	33.5
Bag	26.0
Work clothes	13.3
Sweater, pullover, jumper	8.5
Sportswear	6.5
Evening clothes	4.4
Buy many types of clothes	7.8
Sources of clothes	
Imported products without distributors in Thailand	32.1
Branded products	23.7
Seller-allotted and -distributed products	19.9
Seller-produced products	17.6
Second hand products	6.7
Frequency of purchase	
Less than one time per month	58.3
1-2 times per month	35.4
More than 2 times per month	6.3
Expenses of buying clothes on the Internet	
Less than THB \$ 300 per time	2.7
THB\$ 301- THB \$ 500 per time	48.3
THB\$501- THB \$ 1,000 per time	34.7
More than THB \$ 1,000 per time	14.3
Who influences decision to buy clothes	
On one's own	68.4
Information in social networks	16.0
Friends	7.8
Models/movie stars	4.2
Friends on social network	3.6
Reasons to buy clothes through online social network	
Convenience	44.9
Easy access channels	31.3
No time to go shopping	10.0
Availability of foreign products for purchase selections	13.1
Availability of product diversity	0.7
Types of website through which clothes are bought	75.0
Sub-shop website Web board	75.0
Auction website	13.9 5.8
Blog	5.8 5.3
DIVS	٥.٥

social networks. Prior to performing the factor analysis, the suitability of the data for the analysis was evaluated. To do this, the Kaiser-Meyer-Olin (KMO) and Bartlett's test of sphericity were used. The KMO measure of sampling adequacy is 0.747 which exceeds the threshold suggested value of 0.60 (Tabachnick and Fidell, 2001).

Table 4: Varimax rotated factor analysis

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Factors and items	No. of items	Factor loadings	Cronbach's alpha	Variance (%)	Eigen value
Factor 1					
Influence of social networks	6		0.895	28.753	6.038
Members in a social network come together in sub-groups of		0.730			
a social network to exchange information, knowledge and methods					
of using clothes					
Members can check information about clothes by asking other		0.675			
members of their social network who have this knowledge					
In selecting clothes, you always ask the opinions of other members		0.829			
in the social network					
Other members in the social network take part in suggesting the		0.810			
clothes that might interest you					
The clothes that you choose to purchase often come from your		0.886			
social network.					
Word-of-mouth among members in your social network is		0.838			
trustworthy enough to influence your purchasing the clothes,					
Factor 2					
Demand-driven clothing	3		0.847	17.063	3.583
The clothes have the quality that you desired		0.864			
The clothes have the same features, condition and size that you		0.855			
desired and were described by the information you received					
There are realistic pictures of clothes on the website		0.739			
Factor 3					
Clothing diversity	4		0.86	10.068	2.114
There is variety in brand		0.789			
There is variety in size		0.666			
There is variety in clothing type		0.900			
Clothes that sell online are trendy		0.855			
Factor 4					
Convenient and secure system of ordering	3		0.787	8.568	1.799
Payment online is safe		0.855			
It is convenient and fast to order clothes		0.860			
Confirmation is provided by the owner of the website that		0.613			
payment is correct					
Factor 5					
Discounts	3		0.746	5.637	1.184
The clothes have a wholesale and retail price (discounts available		0.486			
if much is purchased)					
Discounts are offered. For example, a 5% discount is provided on		0.872			
orders of THB \$ 1,000 or more					
Discounts are provided for clothes that are not in the latest fashion		0.914			
Total assistance = 70,0000/ Maison Masson Olive = 0,747, Doublett's test		- 5007 0 000			

Total variance = 70.089% Kaiser-Meyer-Olin = 0.747, Bartlett's test of sphericity $x^2 = 5007$, p = 0.000

The Barlett's test of sphericity was significant ($x^2 = 5007$, p = 0.000), indicating that the between-item correlations were sufficiently large for PCA. Taken together, these statistical measures support the factorability of the data (Tabachnick and Fidell, 2001).

The desired factor loading level for a variable was set at 0.40 (Hair *et al.*, 2006). Of the initial 35 items, 16 were excluded during the scale purification process because they either did not meet the 0.40 factor loadings cutoff or they loaded heavily on more than one factor. In the factors affecting consumer purchase of clothing through e-commerce on social networks, the factor loadings ranged from 0.486 to 0.914 (Table 4). All factors had a Cronbach's alpha higher than 0.70 which exceeded the acceptance criteria and the 0.7 threshold recommended by Nunnally (1978) for the test of scale reliability. Factor analysis revealed the presence of five factors that explained 70.089% of the total variance. Hair *et al.* (2006)

regarded 60% of total variance explained as the threshold. The 5 factors were labeled as follows: (1) Influence of social networks, (2) Demand-driven clothing, (3) Clothing diversity, (4) Convenient and secure system of ordering and (5) Discounts. These 5 factors explained 28.753, 17.063, 10.068, 8.568 and 5.637% of the variance, respectively (Table 4).

DISCUSSION

This study found that the most important reason that respondents shop online is convenience which confirmed findings of previous research (i.e., Shamdasani and Yeow, 1995; Bhatnagar *et al.*, 2000; Rowley and Okelberry, 2000). The apparel they purchased most frequently was imported clothing without distributors in Thailand which is consistent with Lester *et al.* (2006), who found that one important reason that influences

online consumer purchasing is acquiring a hard-to-find product. This is also consistent with Then and Delong (1999), who reported that consumers are likely to purchase an apparel item that was not readily available in traditional shops.

The study's findings indicated that respondents thought that the factors affecting consumer clothing purchase through e-commerce on social networks included the influence of social networks, demand-driven clothing, clothing diversity, convenient and secure system of ordering and discounts.

The finding that social networks influence consumers purchase of clothes online is consistent with Park and Cho (2012), who stated that a member of a social network online community is more inclined to use the community to alter the demand for a clothing item, to search for fashion and shopping information and to search for committed suggestions on selecting the best alternative.

The factors for demand-driven clothes include that the clothes have quality, features, condition and size that the consumer desired and that pictures of the clothes are displayed realistically on the website. This finding confirmed Park and Stoel (2002), who stated that visual presentation is important in clothing selection in online stores.

The factors related to clothing diversity, consisting of clothing modernity, availability of diversity in clothing type and brand for selection and size affected consumers' clothing purchases through e-commerce on social networks. The study's results support the research of Carrigan and Attalla (2001) with respect to brand and Kim *et al.* (2003) with respect to product diversity.

The factor of convenient and secure system of ordering consisted of convenience and speed in ordering clothes, safe payment and confirmed payment by the owner of the website. This finding is consistent with previous research (Cao et al., 2003; Jiang and Rosenbloom, 2005) with respect to ease in ordering and Park and Kim (2007), who argued that delayed shipping has a negative relationship with purchase intentions. It also supports previous research (Then and Delong, 1999; Szymanski and Hise, 2000; Kwon and Lee, 2003; Siddiqui et al., 2003; Yoh et al., 2003) regarding the importance of online payment security.

The study's findings on discounts and their effect on consumer clothing purchases through e-commerce on social networks also supported previous research (Oliver and Shor, 2003), indicating that cheap prices increase the volume of online product purchases.

Managerial implications: The findings indicate that clothing diversity and the availability of clothing that meets consumer demands affected consumer clothing

purchases through e-commerce on social networks. Therefore, online sellers of clothing should be aware of the importance of these factors and enhance the diversity of clothing offered for sale in terms of modernity, style, brand, size and diversity of types. Casual clothing and bags were the most popular clothing types for consumers' online purchases. Online shops might consider offering or prioritizing bags and casual clothes that do not require an exact fit to the body so that consumers may perceive less risk of the product not fitting.

Since the study's findings indicate that convenience and speed in ordering and payment security affected clothing purchases through e-commerce in social networks, online retailers of clothing should make ordering apparel online easy and provide their consumers with information about the quality of payment security and delivery time. Online sellers should guarantee in the website that if delivery time is delayed the consumer will receive compensation such as free gifts or discounts. As pictures of garments that sell online are important, online apparel retailers should post realistic pictures of clothing from different angles on their website.

In addition, based on the results, discounts have an effect on clothing purchases through e-commerce on social networks; therefore, sellers should offer discounts to their consumers to entice them to visit their site as well as select and view clothing, thereby creating more opportunities for consumer purchases.

Online apparel sellers should use social networks to collect consumers' attitudes, comments and suggestions to improve products and service. Small online apparel sellers can use social networks such as facebook to share information, share thoughts and interact with members of social networks.

CONCLUSION

This research addresses the factors that drive consumers to purchase clothing through e-commerce in social network. The sample totaled 412. The findings suggest that the factors that consumers think affect purchasing clothing online are the influence of the social network, demand-driven clothes, clothing diversity, convenient and secure system of ordering and discounts. Therefore, online apparel sellers in social networks should enhance those qualities that consumers want to boost the success of their businesses.

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