

# Developing conceptual model for online shopping attitude in indonesia based

*by* Hasyim -

---

**Submission date:** 27-Jun-2019 01:34PM (UTC+0700)

**Submission ID:** 1147411004

**File name:** eptual\_model\_for\_online\_shopping\_attitude\_in\_indonesia\_based.pdf (305.84K)

**Word count:** 9985

**Character count:** 54221

## DEVELOPING CONCEPTUAL MODEL FOR ONLINE SHOPPING ATTITUDE IN INDONESIA: BASED ON THE DIFFUSION OF INNOVATIONS THEORY

**Hasyim Ahmad**

University of Padjadjaran, Bandung, Indonesia

Esa Unggul University, Jakarta, Indonesia

[hasyimahmad.1212@gmail.com](mailto:hasyimahmad.1212@gmail.com)

**Dwi Kartini**

Faculty of Bussiness and Economics Padjadjaran University, Bandung, Indonesia

[dwi.kartini@feb.unpad.ac.id](mailto:dwi.kartini@feb.unpad.ac.id)

**Rina Anindita** 

Esa Unggul Universtity, Jakarta, Indonesia

[anindita.rina@gmail.com](mailto:anindita.rina@gmail.com)

### **Abstract**

Conducting research towards the attitude of online shopping which involves various dimensions of social and attitude theories is inevitably important. It is compulsory inasmuch as the big potential values kept by such attitude, whether monetary value arising from online transaction or the number of individuals involved in such transaction as economic actors. The aim of this research is to analyze on the impact of various dimensions of social theories, i.e. diffusion of innovations theory, technology acceptance theory, attitude theory, and customers' trust towards the attitude of online shoppers as an innovation in marketing field. By elaborating (synthesizing) those four aspects, it is expected that notable output can be derived as the guideline for any problem solving regarding online shopping formulized by three major pillars of economic actors, i.e. producer/provider of online shopping service, customers and government. Survey method is used and questionnaires are distributed to selected respondents in the form of perceptions, attitudes, and their opinion towards online shopping and Structural Equation Model as an

53  
instrument for testing a hypothesis. The results suggest that the degree of innovativeness, the degree of technology acceptance, and trust have positive impact towards online shoppers' attitude. The implication of this research, the researcher suggests for the importance of developing customers' attitude and opinion in accepting an innovation (adopter category) and customers must also consider about customers' trust aspect in analyzing customers' attitude.

Keywords: Diffusion of innovations, technology acceptance, consumer trust, consumer behavior, online shopping attitude, Indonesia

## INTRODUCTION

52  
The use of the internet in the early 1990s has encouraged the shifting of marketing pattern and customers shopping pattern in Indonesia, from traditional or face-to-face pattern to internet-mediated, without face-to-face, pattern which is called as online shopping or e-commerce. Online shopping or e-commerce appears as the response of public need which has limited time to buy products or services, online shopping, therefore, is perceived as a breakthrough (innovation) in marketing field.

24  
Technically, online transaction or e-commerce has a lot of selling points or advantages when it is compared to offline shopping. Cien et al, (2010) states that by doing online shopping customers can perform 24 hours' transaction, boundless by time and place. Moreover, Miyazaki and Fernandez (2001) also states that by doing online shopping, customers can get satisfaction and save transportation cost, unlike when they are doing traditional transactions. Another benefit lies on the fact that by doing online shopping customers can select one out of many various products offered by products' sellers or providers in a relatively short time, boundless by time (Klein: 1998, Scansaroli: 1997). Peterson et al (1997:329) said that customers can also buy new, unique, and special stuffs that cannot be found or in available in store. Online shopping can also bring positive impact to government, i.e. the increase of tax revenue and from other resources. The number of turn over gained from online transaction and a lot of individuals involved in online transaction may develop job opportunity and reduce the amount of unemployment and improve the welfare of wide society because online transactions are normally conducted by groups of individuals and small and medium enterprises.

3  
There are one hundred and ten million peoples which belong to middle and upper class who use internet as the medium to perform their daily activities. This is a big opportunity for economic actors to grab their attention by doing online business. Nevertheless, when it is perceived from its percentage point, the buying through online transaction services in this

country is relatively low compared to other countries. Data mentioned in Ritel Indonesia Magazine No.34 year III November 2014 depicts that the number of internet users in Indonesia is only amounted to 12 % out of the total internet users in the world and most of them (54%) use social media in conducting online business. This percentage is the lowest in South East Asia, when it is compared to Singapore 80%, Malaysia 80%, Thailand 75% and Philippines 70%.

The question lies on why the number of online shoppers in Indonesia is relatively low, while conceptually a lot of advantages can be gained from online transactions. The aim of this research is to answer this question by expanding Technology Acceptance Model (TAM) to include a diffusion of innovations attribute and trust aspect of online shopping adoption.

There are 2(two) main characteristics of online shopping which distinguishes it from offline shopping. First, customers which perform online shopping are also internet users (Koufaris,2004). Second, online shopping is an indirect transaction, there is no meeting between buyers and sellers, and trust is the most essential component in maintaining the relationship between both parties. Those two characteristics bring consequences to either customers or online producers/service providers. Customers first and foremost must have good understanding on the used technology and online producers/providers must have the capability to provide technology which is user-friendly.

The consequence of second characteristic, during online transaction trust degree must be an utmost essential value because transaction mainly depends on internet facilities so in the event that any party, either seller or buyer, breach the agreement, other party will suffer loss caused by such breach. Chen and Dhilon (2003) discloses the fact that 71 percent of internet users in the United States have low level of trust to online shopping companies. Koufaris and Sousa (2004) states that the lack of trust becomes the main reason of why internet users do not buy stuffs online. Gefen (2000:) states that trust is the major issue during economic and trading interaction because it is related to the problem of uncertainty. Jarvenpaa et al (2000) states that trust is an essential factor to encourage buying through internet, especially during business development phase,

Online transaction (*e-commerce*) is a trading activities which is boundless by place and time. The development of online marketing pattern, therefore, need to be closely monitored in such a way that the economic actors can gain its optimum potentials. This research is focused on the factors which are assumed to be closely linked to customers' attitude, i.e. first; attribute factor of adopter innovation, e.g. group of factors which are related to Diffusion of Innovations Theory). Some previous studies which support the adoption of this factor, among others, Coelho et al (2009), Seong Bae Lim (2010), Keng Ling So et al (2010), Tan and Teo (2013).They

discloses the correlation between customers attitude when doing shopping and their level of acceptance towards innovations and technology.

*Customers trust* with the following indicators: *believes*, *Secure*, and *ensure* are closely linked with customers' attitude and they are belong to indicators which are used in the researches (Lovelock *et al*: 2005, Gefen:2000, Jarvenpaa *et al*: 2000, Koufaris: 2002, Chen and Dhillon: 2003, Cheung *et al*: 2005, Kim Dan *et al*: 2012).

### Analysis of Diffusion of Innovations Theory

Diffusion of innovations theory has been developed by Everet M. Rogers since 1962 and affected by the findings formulated by Ryan and Gross in 1943 which was adopted to hybrid plants (Richardson, 2009:158). In such theory Rogers (1995:5-6) defines "diffusion is the process by which an innovation is communicated through certain channels over time among members of a social system". Diffusion is a form of communication process which has something to do with message transfer about new idea to other community group. Innovation itself, according to Rogers (1995:11) can be in form of idea, practical activity, object which is perceived as something new by individual or unit which will accept it.

The delivery of something new (*diffusion of innovations*) will face people's attitude which will give response towards such new thing, people response is a natural action which may implicate to two things, i.e. accepting or rejecting such innovation. According to Rogers (1995:206) accepting attitude towards an innovation is affected by 1) *perceived of innovations*, 2) *type of innovation decision*, 3) *communication channels*, 4) *nature of social system*, 5) *Extent of change agents' promotion efforts*. Those five elements, according to Roger, will be deemed as independent factors which may affect the level of innovation acceptance, as *dependent variables*.

According to Roger (1995:36) *time* is an essential value in diffusion process, where there are 3 phases or time that take place, i.e. 1) *the innovation-decision process*; or a mental process which an innovation firstly introduced, until it is accepted or rejected. 2) *innovativeness*: is the position of an individual or group of society in term of its *relative speed* in accepting an innovation, compared to other member of society (*social system*). 3) *an innovation's rate of adoption*; levels of adopter innovation. There are five levels of society group regarding their relative speed in accepting an innovation, i.e. the fastest to the slowest ones: 1. *Innovator*, 2. *Early Adopter*, 3. *Early Majority*, 4. *Late Majority*, 5. *Laggard*

Society or individual group assesses an innovation based on 5(five) indicators, namely: (1) *Relative advantages* is a state where an innovation is perceived as giving benefit if it is implemented. Such benefit is measured in *economic terms, social prestige, convenience, and*

*satisfaction*. In other words, the bigger benefit gained from an innovation by public, the faster its level of acceptance will be, and vice versa. 2) *Compatibility*: Attribute of innovation which is linked to the environment. *Compatibility* is certain level where *an innovation is consistent with the existing values, past experiences, and needs*. An idea which is in line or goes with the values and norms adopted by society will be easier to be accepted and on the contrary an idea or product which is deemed less appropriate with its environment will be slower to be accepted by society. 3) attribute is *Complexity* or people's perception towards difficulty in using certain innovation. This description can be interpreted as the level of difficulty of an innovation which is perceived as the receptor of innovation, the easier an innovation, the faster it can be accepted by society and on the contrary if an innovation is perceived as difficult to be implemented, more time will be needed by people to accept the same. In other words, new idea which is easy to comprehend will be easier to accept than an innovation which requires new skill or knowledge to understand, this perspective was explained in Davis' *Acceptance Model Theory*.

According to Davis (1989) *Perceived Ease of Use (PEoU)* refers to the amount of effort towards the level of ease in using technology or in other words *the degree to which a person believe that using a particular system would be free of effort*. Whereas *Perceived of Usefulness (PoU)* is the amount of usefulness that may be gained by using technology or how great such technology can help in solving their task. (4) *Trialability* is the degree where an innovation may experience limited amount of trial and error. New ideas which have experienced trial and error can be accepted faster by people than the one that does not experience trial and error. If a new idea can not be tested such idea will be slower to be accepted. (5) *Observability* is a degree where the result of an innovation can be perceived, the easiest an individual to see the result the faster such innovation to be accepted.

Innovation acceptance as expressed above displays that individual attitude towards the establishment of new innovation or technology. The acceptance of innovation as mentioned above displays the fact that individual attitude towards the establishment of new innovation or technology shall be used as the measurement of the sustainability of such technology, which means that if people tend to accept so the innovation will continue and if people reject such innovation so such innovation will be terminated.

Innovation acceptance process is relatively long process due to the fact that an innovation may bring certain risks, to the group of society that adopts it. Shanker (2011:30) states that basically the adjustment in marketing pattern arises as the reaction towards customers' need, intention, and expectation adjustment pattern which becomes more dynamic. Consequence of the acceptance of an innovation will create adjustment in people attitude towards certain thing. For example, the acceptance of internet technology will create an

adjustment to people attitude in communicating, including among others performing business communication and marketing. For company, by developing acceptance of an innovation, their activity will be more effective and efficient in developing a new product. For customers, the adjustment of marketing pattern will be a solution towards the problem they face, i.e. time effectivity and efficiency.

Thus, we may say that <sup>45</sup> diffusion of innovations theory is a theory which relates to how to measure the level of individual or group acceptance towards something new under the sun. The acceptance of new thing (innovation) is related to <sup>56</sup> the result of individual's evaluation towards the benefit or risk that may arise from such innovation, the more benefit an individual may get and the less risk an individual affords the faster such innovation can be accepted by society, and vice versa.

Besides the result of evaluation, the level of individual or group acceptance towards innovation is also retaliated with the trait and characteristics of such group or individual. Most members of a group can easily adapt and accept an innovation but the rest of whom may need longer time to adopt such innovation. Time difference in accepting such innovation classifies adopter innovations in the society, which is according to Rogers they must be classified into 5 (five) different groups as mentioned previously.

Categories of adopter innovations are groups of people who accept something new (innovation) which is preferred to them based on their relative speed in accepting such innovation in their lives. It is normal when certain group of society reacts differently during the acceptance of certain innovation. There are two things that may trigger such difference, first is because any new thing contains *uncertainty* because of people's *unfamiliarity* towards such thing, second, such uncertainty may bring certain risks which may be resulted from such new thing. Individual nature when facing something new is the establishment of prejudice, such prejudice may last for a long time or only for a while, depends on the individual characteristics of the each acceptor.

Based <sup>7</sup> on such attitude Rogers (1995:262) divides *adopter innovation* into 5(five) categories as follows: (1) *Innovators* (2.5%), (2) *Early adopters* (13.5%), (3) *Early majority* (34%), (4) *Late majority* (34%), and (5) *Laggards* (16%). Percentage of category distribution is based on two factors; people condition and characteristics of the object introduced to people. This distribution is not final in nature because it is closely related to people condition where such innovation is introduced and factors which affect it. Nonetheless, generally there is certain group of society that may accept such innovation fast and there is also group of society which delays until certain time until they can take a decision whether to accept such innovation or not. The difference in people condition may vary pattern of acceptance towards an innovation, people

which belongs to open-minded society will fastly react to anything introduced to them but on the other hand there is also a group of society who is close-minded.

Anurag Pant *et al* (2011:443) divides *adopter category* with different term into 5(five) categories as follows: (1) *Technology enthusiasts*: are individuals who firstly try new product and innovation), (2) *Visionaries*; visionaries are the part of the market and interested in using new products) (3) *Pragmatists*: Pragmatists are customers who belong to *early majority* category. (4) *Conservatives*: are customers who avoid risk and do not know technology very well), (5) *Skeptics*: are the last segment from the circle of technology acceptors and the part of *laggards* who only wants to defend their status quo and avoid any change.

Distribution of adopter innovators as depicted by Rogers(1995) in a normal distribution condition, as a matter of fact the distribution of adopter innovators is not always normally distributed because it depends on the characteristics of adopter innovations and the type of innovations introduced to people and the way to communicate it.

Result of Richardson's research (2009:161) in Cambodia shows percentage of different category and it differs from Rogers' finding. Similarly, Mahajan *et al* (1990:682-683) tests on Bass' theory and finds out a graphic which has different *skewness* and percentage per adopter category which differs from Rogers' finding (1995).

The amount of percentage for each category depends on the response from people towards innovation which is communicated to them and some other related factors. Bass (1969) classifies adapter innovation into 4(four) different categories which differs from Rogers(1975) even though basically Bass' finding is similar with Rogers'(1975).

### **Online shopping within the Review of Diffusion of Innovations and Attitude Theories**

Online shopping is another breakthrough in the way of shopping, which involves technology in bridging the interaction between sellers and buyers. This shopping pattern develops in line with the booming trend of using internet in the society.

*Online shopping* can be categorized as innovation because *something has never been done before by the industry* (Rogers:1995). Newness can be in form of things, ideas or thoughts or certain activity which wants to be implemented by certain group of society. Something new usually requires more time to be accepted by society. Thus, acceptance and rejection of certain innovation is an essential thing which becomes the focus of the analysis of diffusion theory, because acceptance and rejection of an innovation will lead us to the characteristic and chronology of the process of developing an innovation.

Acceptance or rejection towards something that is deemed new (innovation)which is offered to the society is a common thing, generally society do not directly accept something



which has never happened before or something which is new or innovations. This is because such acceptance or rejection will bring consequences to group of people who introduced it. As cited by Rogers (1995) if an innovation is introduced, a change will take place as a result.

New discovery(newness) introduced to people which has commercial consequence will be perceived as an innovation, where innovation is closely linked to technology.

Something which is deemed new which is introduced to group of people will normally face various kinds of responses, there are people who immediately accept, but there are also people who wait for others who are deemed as reference and follow them, and there are also some people who reject it in apriori manner.

Customers in facing online shopping as new finding in marketing field perform an activity which involves cognitive dimension, i.e dimension which involves the assessment process towards profit and loss that may be caused by the implementation of such transaction. In purchase decision concept there is an initial process called cognition problem. This process involve the assessment towards predictable risk. The measurement of such risk is gained by comparing between gained *Benefit* and *Cost* that will be spent. Elements of cost that used to be calculated are *utility*, *psychology*, and *reputation* which will be gained during the usage of the goods. Whereas the elements of cost are usually linked to *monetary value* and *time* spent to get goods or service.

The acceptance of an innovation is an essential thing to be observed, either from the perspective of producer or customer. It is important to understand the category of adapter innovation because: 1) category of adapter will become the material to set the target market for certain product 2 ) the setting of percentage for each category 3) as a way to determine each category (Mahajan *et al*: 1990). To this end, diffusion of innovations research is a way to predict the form or category of adapter innovation and whether such adapter belong to the ones who accept or reject the innovation.

### **Research towards Customer Trust Theory**

Customer trust is an important factor to determine the success of online business provider (Torkzadeh and Dhillon:2002), the main reason of which is because the interaction between buyer and seller during online shopping only takes place via online media, there is no physical contact so every service provider must be able to ascertain their customers through *web site* or other media he or she develops.

Regarding *online transaction (online shopping/ e-commerce)* Chen and Dhillon (2003:303) proposes three things that must be developed by company in creating customers' trust, among others: *Competence*, *Integrity* and *Benevolence*. First, *Competence* deals with

company's capability to keep their promise to their customers. Second, *Integrity* means company acts consistently and honest to customers. Third, *Benevolence*, means company's capability to protect customers' intention and appreciate such intention for customers' behalf.

The lost of trust to *online* company is the main reason why most internet users (*web-users*) hold themselves from buying goods and service online and trust is usually perceived as a critical element because it can maintain the relationship <sup>19</sup> in the long term, in this regards the relationship between customers and service provider. Koufaris and Sosa (2004) states that generally trust <sup>55</sup> can be defined as an individual's belief in form of liking (*favorable*) and expectations based on his or her previous experience. (Gefen: 2000) From this definition it is revealed that trust is belief towards something expected by an individual or something which is based on previous understanding about someone or something. It means that an individual can either believe or does not believe in something if such individual has made an interaction before.

Regarding the attitude of customers towards *online* shopping, customers trust rely on the risk that may be borne by customers due to the absence of face to face meeting between buyer and seller to see the purchased product directly. There are many factors which influence customers' trust, among other: *risk perception* (Gupta *et al*: 2004). Similarly, Koufaris and Sosa (2004:378) explains that trust is an individual's will to trust other party after she or he makes an interaction with such party. It means that customers' trust is the follow up from a customer towards certain impression she or he gets after doing interaction with the company or see the purchased goods or service.

The problem lies on the fact that when doing *online* shopping the interaction between seller and buyer is very limited so customers and producer will greatly depend on the media used during transaction, in this regards internet or website used for transaction. Thus, trust depends on integrity and honesty between both parties, buyer and seller. <sup>33</sup> Trust is a critical factor in stimulating buying through internet (Jarvenpaa 2000). Trust will be created when an individual or company can show other individual of his or her capability and integrity (*trust*) as the exchange of *reliability and integrity* shall be based on an impression felt by certain individual towards a company. Or in other word trust will grow if a company or institution can show its integrity and reliability to its customer which in the end will bring positive impact towards the company or institution itself.

Chaudari and Holbrook (2001) correlated between *trust* and merk, they say that trust depends on whether a company's performance is in accordance with how it should be or in accordance with what it promises of. Similarly, <sup>32</sup> trust can also be defined as *goodwill and willingness* from customers to take risk, where *goodwill* is established from someone's previous experience, and

Trust is the expectation of positive result (Afzal, *et al*: 2011), and *willingness* is the intention of customers to face risk they may get related to the *brand* they consume. Related to *online* shopping, customers' trust to *web site* or used media will greatly affect customers' trust to *on line* service provider, or the higher customers' trust to *web site* or media used by the company the higher customers' trust to the company which uses such *website*, and vice versa. *Customer's Trust* is very relevant to uncertainty where more notable merk has more selling point than other merks of the similar products. *Customer's trust* can only grow as a belief towards honesty and integrity of the seller, which is reflected from the attitude of its selling force.

*Consumer's trust* will grow due to the initiative of such customer to believe in what is offered by a merk (*brand*), besides that, *trust* will reduce uncertainty because customer does not only know that a product or *brand* is believable (Hsin Hsin Chang:2008) *Consumer's Trust* can be both created and developed if customer has consumer experience in doing such consumption, begin from the *introduction* phase of that brand. Moreover, it has been expressed on how important *trust* as the major component of maintaining *relationship* between buyer and seller Jarvenpaa *et al* (2000). *Customer's Trust* may be viewed as a cognitive component, because it manifests as an emotional encouragement, such encouragement may grow after being satisfied with previous purchasing process, according to Afzal (2010). Whereas Kofaris (2004) describes that trust is something that an individual must hold tight with high integrity because it has something to do with quality.

Battacharjee (2002:215) defines trust as *cognitive component* which includes emotional response and has something to do with experience towards product that belief can be formed by direct experience from the customers. Thus, we may say that *trust* has something to do with somebody belief towards *reliability* and *integrity* which is shown by an individual or a product or company. Chauduri and Holbrook (2001:82) define *trust* as average intention of customer to *rely on* the capability shown by a brand or company.

The result of research conducted by Afzal (2010:44) finds that customer's trust is a variable which can grow customer's trust. Jarvenpaa *et al* (2000:) describes that customer's attitude in *online* shopping is affected y various factor, especially trust factor. This *e-commerce* has three categories, namely B2C (*Business to Customer*) or *online* transaction which directly relates between business actor and individual customers. Then, B2B (*business to business*), or *online* transaction between one or companies with other business, and B2E (*Business to Employee*), or information and service which are prepared for the employees.

From above definition it is known that the benefit of the growing trust of the customers is to reduce uncertainty so customers can reduce time of shopping and their level of *uncertainty*, or in other words if someone can get certainty, he or she can develop trust too. The next impact

of *trust* is satisfaction, which means that if someone believes to certain product the feeling of satisfaction will arise because he or she losses his or her uncertainty of bearing loss and risk from such purchase. Customers who represent a *website* with good reputation tend to appreciate and use such website. From this fact we may conclude that there is positive impact, where customers believe in good reputation from *internet* service provider, and they will develop more trust to the site which offers good by using that brand (Cassalo, *et.al*:2011).

Decision making process to buy is affected by varied stimulants which come from the buyer itself like psychological affect, personality, preference or attitude, or from outside the buyer like the factors coming from the purchased goods which lure buyer's attention, economic affect, culture, and technology, the result of such cognitive evaluation will affect customers' attitude.

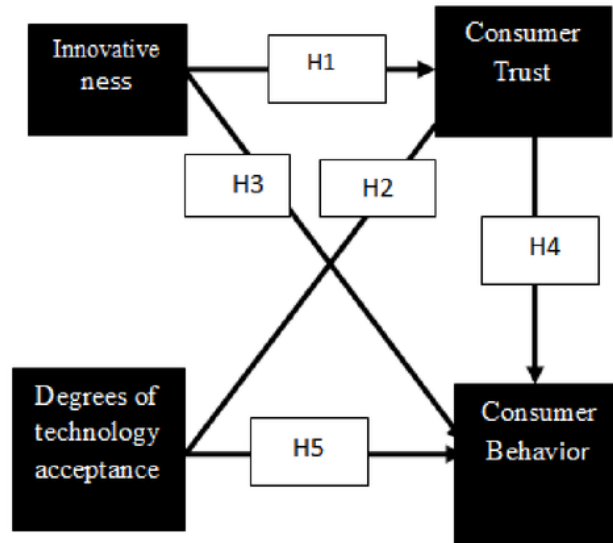
Kim's finding (2008:505) to *e-commerce* practice in South Korea reveals that *Customer Perceived Value* has positive effect towards customers commitment to *online shop* and to the brand sold in such *online shop*. Close relationship and binding between customer and *on line shopping* is determined by the establishment of good reputation, from such *online* store, and from the goods being sold and purchased in such *online* store. Thus, customers' trust should be measured from emotional binding which represents through the intention to bind a relationship with such merk, it can also be measured from the reputation of the merk which is assessed from the perspective of such customer. The result of the research on the correlation between trust and purchase attitude has become the focus of the study in marketing field (Kumar:1995, Shankar:1998, Gounros:2005, and Hasyim: 2013) have proved the establishment of strong concept between customers' trust and customers' loyalty to various sectors of goods and services. Their trust significantly affects customers' commitment (Li and Pin:2002, Casalo, *et.al*: 2011, Venkatash and Agarwal: 2006).

Customers trust is inevitably important to be implemented in recent marketing condition where *service dominant logic* (SDL) concept becomes new perspective in marketing study (Vargo and Lusch: 2004). SDL has differ perspective from *goods dominant logic* (GDL), where SDL principle is fundamental basis of an exchange (Vargo, 2009) its output is *intangible*, and relational exchange process becomes its central point. Whereas GDL perspective perceived that customer as the object (*operand resource*), where distributor perform customers' segmentation, distribute product to customers, distributing ads to customers, and try to satisfy them (Gruen and Hofstetter:2010).

*Online* transaction is a trading activity which is focused to service. Thus, trust is the most important component, perceived both from the angle of customer and *provider*. Being able to

keep its customers' trust towards its service, the provider will be able to get more customers with its ultimate goal to do recurrent selling (Morgan and Hunt:1994).

Figure 1. Proposed Research Model



## RESEARCH METHOD

This research applies survey method towards dimensions of diffusion of innovations theory, TAM, customer trust, and attitude theory are used to prepare indicators and it uses questionnaires as the instrument of this research. The type of data used is quantitative data in form of attitude, perception, and opinion measurement to the respondents of which answers are given value by using Likert scale (*Likert-style*), ranges from 1="strongly disagree". through 3="neutral" to 5= "strongly agree". Population is based on the data reported by AC Nielsen (2014), which shows that the number of internet users in Indonesia is amounted to 82 million people, it is predicted that 10% to 15% or approximately 10 million to 11 million people have experienced *online* shopping. Most of them resides in Jakarta and other big cities and some other reside in small cities which are exposed to internet. Their age ranges from 18 – 65 year old, coming from various profession. Regarding the big number of population and the fact that it will be difficult to reach them, the researcher only takes samples from such population.

Samples are taken from two separated groups of residential areas (geographical areas) where the respondents live, i.e. respondents who live in big cities and respondents who live in small cities. The amount of respondents included in this research is amounted to 211

respondents who submit the answer back out of 270 distributed sets of questionnaires. *Primary data* is collected through survey and used as the core data for the research which is derived by directly distributing questionnaires to reachable respondents and such questionnaires are distributed based on the dimensions and variable indicators by relying on the theory adopted to respondents who live outside Jakarta, by using *google.docs.com*.

There are 211 respondents of the research, listed based on gender, age group, type of occupation, residential area, frequency of internet usage, location of internet usage, frequency of shopping in the last 3 months, and the type of most bought product.

### RESULT OF FITNESS MEASUREMENT MODEL

Before hypothesis testing is conducted, researcher matches data fitness with research model to perceive its *Goodness of Fit* (GOF). This test is conducted basically to evaluate whether resulted model is fit or not, by comparing between the value of data processing with the fitness value of each assessed component. The result of such test is as follows:

*Chi-square*=29.225( $p=0.173$ ) displays good fit, because *Chi-square* is low, shown by figure  $p > 0.05$ .

Value of comparison between *Chi-square* and *degrees of freedom* is 1.271,  $\leq 3.00$  (good fit).  $NCP=6.225$  shows discrepancy between  $\sum$  and  $\sum(\Theta)$  is small, so this category can be included to good fit.

*Confidence Interval*  $NCP:0.0$  to 24.257 shows narrow interval, so it is good fit.

RMSEA value 0.0359( $<0.05$ ) which shows *close fit* level of matching. A model is *close fit* is its RMSEA value  $\leq 0.05$ , and RMSEA value  $\leq 0.08$  is *good fit*, RMSEA between 0.08 and 0.10 is *marginal fit* and RMSEA  $>0.10$  is *poor fit*. *Confidence interval* is used to assess the achievement of RMSEA estimates. The output displays 90% of confidence interval lies around RSMEA value (between 0.0 and 0.0709).

$P$ -value for test of close fit (RMSEA $\geq 0.05$ )=0.708 ( $P$ -value $>0.05$ ) so the fitness is good. ECVI model(0.444) is compared to ECVI saturated model(0.524) and ECVI independence model(13.066). ECVI model is smaller than ECVI saturated model and far smaller than ECVI independence model, or we may say that ECVI model is close to its saturated model. Besides that, 90% of confidence interval is 0.414 to 0,530 and the model has good fitness. AIC value for the model is 93.225, AIC for saturated model 110.000, AIC for independence model 2787.434. We can observe that AIC model has closer value to AIC for saturated model than with AIC for independence model. It means that model has good level of fitness(*good fit*). CAIC model value

is 232.485, CAIC for saturated model 349.352, CAIC for independence model 2787.434. We may observe that CAIC model value is closer to CAIC for saturated model than CAIC for independence model. It means that the level of model matching is good (good fit). Normed Fit Index (NFI) value=0.989. NFI value which ranges from 0-1 with higher value will be better.  $NFI \geq 0.90$  is good fit, whereas  $0.80 \leq NFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Non-Normed Fit Index (NNFI) value =0.995. NNFI value which ranges from 0-1 with higher value will be better.  $NNFI \geq 0.90$  is good fit, whereas  $0.80 \leq NNFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Comparative Fit Index (CFI) value =0.997. CFI value which ranges from 0-1 with higher value will be better.  $CFI \geq 0.90$  is good fit, whereas  $0.80 \leq CFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Incremental Fit Index (IFI) value =0.997. IFI value which ranges from 0-1 with higher value will be better.  $IFI \geq 0.90$  is good fit, whereas  $0.80 \leq IFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Relative Fit Index (RFI) value =0.978. value which ranges from 0-1 with higher value will be better.  $RFI \geq 0.90$  is good fit, whereas  $0.80 \leq RFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Parsimonious Normed fit Index (PNFI) value=0.505. PNFI value ranges from 0.60 to 0.90. So the level of matching for the model under observation is marginal fit. Critical N(CN)=292.550>20, shows the number of sample is adequate to be used to estimate the model. Root Mean Square (RMR) shows average residual between variance-covariance matrix and the result of estimation. From the calculation it is derived that standardized RMR value is=0.0296, where RMR value  $\leq 0.05$  shows good level of matching. So the level of matching for the model under observation is good fit. Goodness Fit Index (GFI) value=0.973. GFI value which ranges from 0-1 with higher value will be better.  $GFI \geq 0.90$  is good fit, whereas  $0.80 \leq GFI < 0.90$  is marginal fit. So the level of matching for the model under observation is good fit.

Overall the Confirmatory Factor Analysis (CFA) results suggested that the models of Innovativeness, technology acceptance, consumer trust and consumer behavior provided a good fit for the data.

4  
Table 1. Standardized Path Estimates

Hypothesis	Construct relationship	Coefficient	t- value	Result
H1	Level of Innovation Positively Correlates with the Level of Trust of <i>Online</i> Customers	0.680	8.548	Support
H2	Level of Technology Acceptance Positively Correlates with the Level of Trust of <i>Online</i> Customers	0.210	3.902	Support
H3	Level of Customers' Trust Positively Correlates with the Attitude and Behaviour of <i>Online</i>	0.330	3.325	Support
H4	Innovation Level Positively Correlates with the Attitude and Behaviour of <i>Online</i> Shoppers	0.264	2.692	Support
H5	Level of Technology Acceptance Positively Correlates with the Attitude and Behaviour of <i>Online</i> Shoppers	0.267	4.085	Support

## DISCUSSION OF FINDINGS

In this research there are 5 hypotheses, analysis for hypotheses testing is conducted with 5% level of significance and displays t critical value of  $\pm 1.96$ . Hypothesis is accepted when t-value scores  $\geq 1.96$ , and is not accepted when t-value is  $\leq 1.96$ .

Based on data output, the influence between the Level of Innovation towards the Level of Online shoppers' trust displays t-value of  $8.548 > 1.96$ . This figure shows significant result, where alternative hypothesis states that level of innovation and level of trust are acceptable.

This hypothesis proves that someone who belongs to the group of innovator or early adopter tends to ignore the risk which may prevail from certain innovation, they tend to directly try an innovation (Rogers:1995), that an innovator is obsessed with innovation. Thus, they tend to adopt certain innovation without weighing on the risks that may prevail from such adoption. The group of society which is fast in receiving an innovation is called as technology enthusiasts: or the individuals who always try new product and innovation in the first place. Thus, the more innovator a customer, the higher potential that he or she will ignore the risk and accept the innovation, and the higher his or her trust towards online shopping. On the contrary, customers who tend to be late adopter or laggard will display low level of trust (Anurag Pant et al 2011).

The impact of technology acceptance level towards the level of trust shows the t-value of  $3.902 > 1.96$ . This figure shows significant result, or there are certain impact of technology



acceptance towards customers' trust. In other words, the higher customers perceive the benefit they may get from online shopping, the easier they perceive an online transaction activity is, and the more they trust online shopping, more frequent they use online shopping transaction. Liang and Huang(1998) find out what is experienced by customers will be absorbed as their experience and encourage their acceptance towards internet shopping. Moreover, economic perspective model states that in doing purchasing, customers tend to take decision based on their rational thought and awareness, customers tend to base their decision on rational thought and awareness in performing economic calculation. Thus, customers always do calculation towards maximum utility and satisfaction in accordance with what they expect and the amount they spent.

The influence of the level of customers trust towards online shoppers attitude gained t-value which is amounted to  $3.325 > 1.96$ . This figure shows that the result is significant, where proposed null hypothesis can be rejected. It means that Customers Trust consists of the following indicators: Benevolence, Honesty and Competence and may change customers behaviour and attitude towards online shopping. This is in line with Battacharjee (2002:215) who defines trust as cognitive component which includes emotional response, and experience towards product, and it means that trust can be built through customers' direct experience. Thus, we may say that trust is related to an individual's belief towards reliability and integrity shown by an individual, a product, or a company, the more positive attitude of an individual during online shopping the more positive consumers attitude which is marked by the willingness to do recurrent purchasing via online shopping.

The influence of the level of innovation towards online shoppers attitude gained t-value which is amounted to  $2.692 > 1.96$ . This figure shows that the result is significant, where proposed null hypothesis can be rejected. The explanation from the above mentioned findings is the higher the eagerness to accept online shopping risk the higher customers trust towards online shopping, or the high innovation acceptance can serve as an indicator where customers assume that online shopping is a trustable medium of transaction. This finding shows that risk factor is an acceptable factor for each activity. Also, customers who avoid the risk tend to have lack of trust towards online shopping. It means that the adjustment of customers' attitude and behaviour towards online shopping depend on the level of risk acceptance and the level of acceptance of an innovation. The braver a customer to take risk when doing online transaction and the more innovative a customer the more positive the attitude of such customer or the higher his or her intention to buy or the more frequent he or she does online shopping.

The influence of technology acceptance level that make online shopping easier towards Customers' Attitude and Behaviour to do online shopping. Data processing displays t-value of

4.085 > 1.96 This figure shows that the result is significant, where proposed <sup>37</sup> null hypothesis is not acceptable and alternative hypothesis may be accepted. It means that the adjustment of customers' attitude and behaviour towards online shopping depends on their perception towards the benefit and practicality in doing online transaction. According to Shim <sup>12</sup> et al (1998), in the context of e-commerce, customers' attitude reflect their perception towards the satisfaction of shopping experience, that can be measured from their eagerness to accept internet as the medium of shopping, or the higher perception of utility they may gain or the easier they can do online shopping the more positive such customers attitude or the higher their intention to buy or the more frequent they do online shopping.

#### CONCLUSION AND IMPLICATIONS

<sup>4</sup> The application of theory of diffusion innovation and the technology acceptance model in this research has been proven to be able to serve as the foundation to analyze and predict people behaviour which deals with marketing study, although basically those two theories are rooted from the theories which analyze and predict social life (social science). So we can use this model of diffusion innovation for further research in different study.

The findings in this research proved that management study (marketing) can be perceived from various dimensions and perspectives by elaborating theories from various but inter-related branches of science which in the end will grow our understanding and develop marketing science to be more dynamic. This finding assume that it is important to do the follow-up research with wider scope to another branches of science like financial management, human resources management, etc with differ research objects.

By relating the dimensions linked to innovation level and dimensions linked to technological acceptance, by placing customer trust variable as mediating factor researcher finds out that there is significant influence towards customers' attitude. This finding has implication to three pillars of economic actors, i.e. producer, consumer, and government as regulator.

First, for producers the finding of this research may be used as the material to prepare the strategy for online service provider which is acceptable to customers. Producers may use dimensions of innovation level variables like risk reduction and benefit increase gained from the usage of online media. The recovery performed to technology acceptance level variables like providing technology that can give advantage to customers, can be tested (trialability), and provide technology that is easy to operate for customers when they are doing online shopping (user-friendly), and variables of customers trust by developing and increasing types of services. Online service providers must have the ability to act honestly (honesty), consistent

(benevolence) and the ability to meet the agreement they have made with their customers (competence).

Implication of this research to government is this research can serve as the guideline to prepare policy and regulation in the field of technology and online shopping marketing, like providing good and cost-efficient facilities that can be used by both producers and consumers for their transaction. The development of such facilities will bring positive impact to business world, assure the satisfaction and security of transaction for customers, increase the amount of government revenue from trading sector and increase the welfare of wide public.

## REFERENCES

- Afzal, Hasan, et.al. (2010). "Consumers trust in the Brand; Can it Be Built through Brand reputation, Brand Competence and Brand Predictability" *Internasional Business Research*. Vol.3 No.1., p. 43-51
- Agarwal, Ritu and Jayes Prasad. (2007). The Role of Innovation Characteristics and Perceived Voluntariness in the Acceptance of Information Technologies. *Journal of Decision Sciences*. Vol. 28. No.3. p. 557 – 580
- Ajzen, Iccek. (1991). "The Theory of Planned Behavior" *Organizational Behavior and Human Decision Processes*, vol.50
- Bass, Frank,M. 2004. Comments on "A new product growth for model consumer durables" *The Bass Model, Management Science*. Vol.50 No.12,p.1833-1840
- Battacharjee, A. (2002). Individual trust in online firms: Scale Development and initial test, *Journal Management Information Systems*, Vol.19, 211-241
- Bennet, Charles Iverson. (2004). An empirical analysis of innovation adopter categories among internet users: a generalized reassessment of the distribution of innovation adopter, A dissertation submitted to Webster University, Saint Louis, pp. 1-323
- Casalo, Luis, et.al. (2011). "The Generation of trust in the online service and product distribution" *Journal of Electronic Commerce Research* vol. 12. No. 3
- Chauduri, Arjun and Holbrook, Morris. (2001). "The Chain of Effects from, Brand trust and brand Affect to Brand Performance: the Role of Brand Loyalty." *Journal of Marketing*. Vol 65. No.2. p. 81-93
- Chen Chih-Chung and Su-Chao Chang. (2005). "Discussion on the Behavior Intention Model of Consumer Online shopping/ e-commerce", *Journal of Business and Management* vol. 11, No.1, p.41-57
- Chen, Sandy C., and Gurpreet S.Dhillon. (2003). Interpreting Dimensions of consumer Trust in E-commerce, *Information Technology and Management*, vol.4.pp.303-318
- Chien-Hsiung Lin. 2010. Personality, Value, Lifestyle, and Postmodernism. *Consumer Behavior: A comparison Among Three Generations: International Journal of Organizational Innovation*.
- Chien-Lung Hsu, et.al. 2010. "Effect of commitment and trust toward micro-blog on consumer behavioral intention: a relationship marketing perspective". *International Journal of Electronic Business Management*. Vol. 18 No. 4. pp. 292-303
- Ching-Hsien Soong, et. Al. nd. "A Study on the Relationship between Brand trust and the Customer Loyalty based on the Consumer Aspect." *Department of Business and Management, me-Ho Institute, Taiwan*
- Constantinides, Efthymios. 2004. Influencing the Online Consumer's Behavior: The Web Experience. *Internet Research*. Vol 14 Number 2. pp 111-126

- Crowson, Dennis. 2005. "The Adoption of Online Student Service in Texas Colleges and Universities; an Analysis Based in Roger's Diffusion Model". University of Nebraska, Lincoln.
- Davis, F.D., Jr. 1985. A Technology Acceptance Model for empirically testing new end-user information systems, Theory and Result. A dissertation, Wayne State University
- ..... 1989. Perceived Usefulness, Perceived easy of Use and User Acceptance of Information Technology. MIS Quarterly, vol.13 no.4
- Donna, Coelho et al. 2010. Re examining the factors that affect consumer acceptance of innovation, Proceedings of ASBBS, vol.17No.1 p.362-375
- Eastin, M. S. 2002. Diffusion of e-commerce: Analysis of the adoption of four e-commerce activities. Telematics and Informatics, 19(1),251-267
- Eggert, Andreas and Wolfgang Ulaga. 2002. Customer Perceived Value: A substitute for Satisfaction in Business Market., Journal of Business & Industrial Marketing, Vol 17. No. 2 107-118
- Engel, J.F., Blackwell R.D., and Miniard, P.W. 1986. Consumer Behavior, 5th ed. Dryden
- Fishbein, M. And Ajzen, I. 1975. Belief, attitude, intention and behavior: an introduction to theory and research, Reading, MA: Addison-Wesley
- Garbarino, E., & Strahilevitz, M. 2004. Gender differences in the perceived risk of buying online and the effects of receiving a site recommendation. Journal of Business Research
- Garbarino, Ellen and Johnson, Mark. 1999. 'The different roles of satisfaction, trust adoption., and commitment in customer relationship' Journal of Marketing Vol. 63 No. 2.
- Gefen, David. 2000. E-commerce: the role of familiarity and trust, The International Journal of Management Science, pp.725-737
- Gefen, D., and D Straub. 1997. Gender Differences in the Perception and Use of e-mail: an extension to the Technology acceptance Model. MIS Quarterly., vol 27.No.1
- ....., 2000. The Relative importance of Perceived Ease of Use in IS adoption: A study of e-commerce. Journal of the Association for Information., vol.1, no.4
- Gupta, Alok et al. (2004). An empirical study of consumer switching from traditional to electronic channels: A purchase decision process perspective, International Journal of Electronic Commerce, vol. 8 NO.3, pp.131-161
- Hair, Joe., F et al. (2012). "An assessment of the use of partial least squares structural equation modeling in marketing research" Academy of Marketing Science, vol 40 pp414-433
- Hair, Joseph, F, Jr et al. (2010). Multivariate Data Analysis: A Global Perspective, Pearson Prentice hall, 7th ed.
- Hansen, Torben. (2005). "Consumer Adoption of Online Grocery Buying; a Discriminant Analysis". International Journal of Retail and Distribution Management. Vol. 33 No 2 P.101-122
- Hasyim dan Anindita, R. (2009). "Prinsip – Prinsip Dasar Metode Riset Bidang Pemasaran, Edisi Pertama"
- Hasyim, Hasyim. 2013. The role of consumer trust as mediating factors. Journal Aplikasi Manajemen, Brawijaya, vol.11.No.4 hl.688-696
- Hsin-Hsin Cang and Hsin Wei Wang. 2008. "The Impact of Online Store Environment Cues On Purchase intention- Trust Perceived risk as a Mediator" Online Information Review Vol.32 No.6 pp 818-841
- Hsin-Hsin Cang and Hsin Wei Wang. 2009. "The Moderating Effect of Consumer Trust on Online shopping/ e-commerce"
- Hsin-Hsin chang. 2008. "The Impact of Online Store Environment on Purchase Intention : trust and Perceived Risk as a Mediator". Journal of Online Information review. Vol.32. No. 06. P. 8187-841
- Jarvenpaa, Sirkka.L. et al. 2000. "Consumer Trust in an Internet Store' Information Technology and Management. vol.1

- Jeffrey A.Scott and Rebecca Hodge. 2007. Factor Influencing Impulse Buying During an Online Purchase, Journal of Electron Commerce., P.367-379
- Ji-Seok Yoo, et.al.2008. 'Trust in Online Shopping: the Korean student experience" Proceeding of the 41st Hawaii International Conference on System Science
- Kim, Dan J. et al.2008. A trust-based Consumer Decision Making model in electronic commerce:The role of trust, perceived risk, and their antecedents., Decision Support System.,p.544-564
- Klein,L.R. 1998. Evaluating the potential interactive media through a new lense, Journal of Business research, vol 41.pp.195-203
- Kolyesnikova, Natalia.,et al.2009. Gender as a moderator of reciprocal consumer behavior., Journal of Consumer Marketing,p.200-213
- Koufaris, Marios and William Hampton Sosa. 2004. The Development of Initial Trust in an online company by new customers.,vol.41 p 377-397
- Kumar,Nanda., et al. 2005. Consumer search behavior in online shopping/ e-commerce environment, e Service Journal
- Liang, T.P.,and JS Huang.1998. An empirical study on consumer acceptance of products in electronic markets: a transaction cost model, Decision support systems No 24
- Lohse, G.L. and Spiller.,G. 1998.Electronic shopping: Quantifying the effect of customer interfaces on traffic and sales; Communication of ACM, vol 41.,no.7 pp 81-86
- Lovelock,Christopher, et al. 2005. Services Marketing in Asia, Pearson Prentice Hall, 2nd ed
- Lee, Mathew and Turban Efrain. 2001. "A trust model for consumer internet shopping' International Journal of Electronic Commerce. Vol. 6 no.1. p. 75-91
- Li, Na and Zhang Ping. 2002. Consumer Online shopping/e-commerce Attitude and Behavior' 8th American Conference on Information Systems
- Luhman, N.1979. Trust and Power, John Wiley and Sons, Chiechester, England
- Mahajan, Vijay et al. 1990. Determination of Adopter Categories by Using Diffusion Models. Journal of Marketing Research. Vo.37. p80-87.
- .....2001. Diffusion of New Products: Empirical Generalizations and Managerila Uses Journal of Marketing Science. Vol.14. p37-50.
- Manzano, J.A. 2002. Partial Least Squares Path Modeling in Marketing and Management Research Aplication and Annotated
- Mayer,R.C., et al. 1995. an integrative model of organizational trust, Academy of Management Review vol.20
- Mattila, Minna.,et al. 2003. Internet Banking Adoption among Mature Customer: early majority or laggards? Journal of Service Marketing, vol.17.,No.5, pp514-528
- Miyazaki,A.D. and Fernadez,A.2001. Consumer perceptions of privacy and security risks for online shopping. The journal of consumer affairs, vol 35. pp.27-44
- Mohammad, Anber Shlash. 2012. "The effect on Brand Trust and Perceived Value in Building Brand Loyalty" International Research Journal Of Economics. Vol.85. p.111-127
- Mun Yi, et.al. nd. "Understanding Information technology Acceptance by Individual; toward an Integrative View". Journal of Information and Management. Vol.43. p.350-363.
- Nielsen,AC. nd. Consumer in Asia Pasific- Our Confidence, Spending Intentions and Major Concerns, p.1-9
- .....2014. Know online shopping/e-commerce trends now, Catch Business potential in advance
- Pant Anurag,et al. 2011. Desires of an adopters' Haeart: Which produce characteristics influence brand loyalty among different types of adopters, Competition forum, vol.9 no.2 pp 442-453

- Pavlou, Paul A., and Fygenson, M. 2006. Understanding and Predicting Electronic Commerce Adoption: and Extension of The Theory of Plan Behaviour, *MIS Quartely*, vol. 30, no.1, pp.115-143
- Pavlou, Paul A. 2003. Consumer Acceptance of Electronic Commerce: Integrating Trust and Risk with The Technology Acceptance Model., *International Puria f eictronic Commerce.*, vol. 7, no.3
- Peterson et al. 1997. Exploring the implication of the internet for consumer marketing, *Journal of the academy of marketing science*.vol.25 pp.329-346
- Pinson, Caroline. 2012. "What makes Apple Consumers Brand Loyal, The Effects Brand Personality, Reputation and Brand Identity". University of south Carolina
- Rajan P. Varadarajan and Satish Jayachandran. 1999. "Marketing Strategy: An assessment of the state of the field and outlook", *Academy of Marketing Science*, (Spring), 120-143
- Richardson, Jayson. 2009. Diffusion of Technology adoption in Cambodia: The test of theory, *International Journal of education and Development using information and communication technology*, vol.5 No.3 pp.157-171
- Rogers., Everett, M. 1995. 'Diffusion of Innovation, New York., The Free Press., 4th, edition.
- Roig, Juan Carlos Vandos, et al. 2006. 'Customer Perceived Value in Banking Services". *International journal of Bank Marketing*. Vol. 25. No.5. p.266-283
- Rose, Janelle & Gerard Fogarty. 2006. "Determinants of Perceived Usefulness and Perceived Ease of Use in the Technology acceptance Model; *Academy of world Business Marketing & Management Development.*, vol.2 No.10., pp 122-129
- Scansaroli, JA., and Eng, V. 1997. Interactive retailing: consumer on line, Chain store age
- Schiffman, L.G., and Kanuk, LL. 1997. *Consumer behavior*, 6th ed. prentice Hall
- Sekaran, Uma. 2003. *Research Methods For Business, A Skill Building Approach*, John Wiley & Sons, Inc.
- Saeed, Kawaja, A., et al. 2003. Toward an Integrative Framework for Online Consumer Behavior Research: A Meta –Analysis Approach., *Journal of End User Computing.*, vol 15 No.4.
- Seong Bae Lim et al. 2010. Web 2.0 service adoption and entrepreneurial orientation *Springer Verlag* vol.4., pp197-207
- Shanker, Venkatesh., et al. 2011. "Innovations in Shopper Marketing: Current Insights and Future Research Issues"., *Journal of Retailing* 87S , p 29 – 42
- S. Shim and MF Drake. 1990. "Consumer intention to utilize electronic shopping" *Journal of Direct Marketing*, Summer, No.4
- S. Shim, MA. Eastlick, SL., Lots and P. Warrington. 2001. "an online prepurchase intention model: the role of intention to search.", *Journal of Direct Marketing*, Summer, No.4
- Srinivasan, Anderson and Ponnnavolu, 2002, "Customer loyalty in e-commerce : an exploration of its antecedents and consequences" *Journal of Retailing* no. 78. P.41-50
- Tan, Margaret and Teo Thompson. 1998. "Factors Influencing the Adoption of the Internet". *International Journal of Electronics commerce*. Vo.2. No.3 p.5-18
- Tan, Margaret and Sudharsan. 2012. " Effects of Interruptions on Consumer Online Decision Processes". *Journal of Consumer Psychology*. Vol.2. No.3. p. 265-280
- Teo, S.H., Wang and Leong, CH. 2004. "Understanding online shopping/e-commerce behavioral using a transaction cost economics approach, *International Internet Marketing and advertising*, pp 62-84
- Teo, Thompson and Jing Liu. 2005. "Consumer trust in e-commerce in the IS, Singapore and China". *Omega The International Journal of Management Scinece*. Vo.; 35. p. 22-38
- Teo, T. 2001. Demographic and motivation variables associated with internet usage activities; *Internet Research* vol.11 no.2 pp.125-137

- Torkzadeh, G. And G.Dhillon. 2002. Measuring factors that influence the success of internet Commerce, Information systems Research. Vol 13, No.2 pp.187-204
- Varadarajan, Rajan P. and Satish Jayachandran. 1999. "Marketing strategy: An assessment of the state of the field and outlook", Academy of Marketing Science, (Spring), 120-143
- Van Vuuren, and Lombard, Robert. 2012. "Customer Satisfaction, trust and commitment as predictors of customer loyalty within an optometric practice environment" Southern African Business review. Vol. 16 No. 3
- Venkatesh, V. and Fred, D. Davis. 2000. A Theoretical extension of the Technology acceptance model: four longitudinal field studies, Institute for operation research and the management science. vol.46. No.2, pp.186-204
- Venkatesh, V. and Morris, M.G. 2000. "Why don't men ever stop to ask for directions? Gender, social influence, and their role in technology acceptance and usage behaviour", MIS Quarterly, Vol. 24 No. 1, pp. 115-40.
- Venkatesh, Visnawath and Agarwal Ritu. 2006. "Turning Visitors into Customers: a Perspective in Purchase Behavior on Electronic Channels." Journal of Management Science. Vol.52 no.3. p.367-382
- Veritrans and Daily Social. 2012. E-Commerce Data in Indonesia.
- Walter, Achim and Ritter, Thomas. 2003. 'The Influence of adaptations, trust and commitment on value creating functions of customer relationships" The journal of Business and Industrial Marketing, vol. 18 No. 5.
- Yong Hui Li & Jing Wen Hung. 2009. "Applying Theory of Perceived risk and Technology Acceptance Model in The Online Shopping Channel", World Academy of Science, engineering and Technology., Vol 53. pp 919-925.
- Zhong Jun Tang et al. 2010. "Using the Classic Grounded Theory approach to Understand Consumer Purchase Decision in Relation to the first Customized Products" Journal of Product & Brand Management, Vol 19. No.3.
- Zhou, L., Dai, L., and Zhang D. 2007. "Online shopping/ e-commerce behavior acceptance model-A critical survey of consumer factors in online shopping/ e-commerce; Journal of Electronic Commerce Research, vol 8 no.1 pp 41-62.

# Developing conceptual model for online shopping attitude in indonesia based

## ORIGINALITY REPORT

<b>11</b> %	<b>8</b> %	<b>4</b> %	<b>8</b> %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

## PRIMARY SOURCES

<b>1</b>	<b>nv-creations.com</b> Internet Source	<b>1</b> %
<b>2</b>	<b>repository.ipb.ac.id</b> Internet Source	<b>1</b> %
<b>3</b>	<b>eprints.ums.ac.id</b> Internet Source	<b>1</b> %
<b>4</b>	<b>www.waset.org</b> Internet Source	<b>&lt;1</b> %
<b>5</b>	<b>perpustakaan.unitomo.ac.id</b> Internet Source	<b>&lt;1</b> %
<b>6</b>	<b>etd.ohiolink.edu</b> Internet Source	<b>&lt;1</b> %
<b>7</b>	<b>Submitted to Grand Canyon University</b> Student Paper	<b>&lt;1</b> %
<b>8</b>	<b>krishikosh.egranth.ac.in</b> Internet Source	<b>&lt;1</b> %
<b>9</b>	<b>Submitted to Universitas Negeri Jakarta</b>	



Student Paper

<1%

10

Submitted to The Hong Kong Polytechnic University

Student Paper

<1%

11

[vuir.vu.edu.au](http://vuir.vu.edu.au)

Internet Source

<1%

12

[repository.ubn.ru.nl](http://repository.ubn.ru.nl)

Internet Source

<1%

13

[etd.fcla.edu](http://etd.fcla.edu)

Internet Source

<1%

14

Submitted to Southern New Hampshire University - Continuing Education

Student Paper

<1%

15

[jict.uum.edu.my](http://jict.uum.edu.my)

Internet Source

<1%

16

Submitted to Coventry University

Student Paper

<1%

17

Xiao-Ping Chen, Siqing Peng. " Dynamics: Shifts in the Closeness of Ties Between Chinese Coworkers ", Management and Organization Review, 2015

Publication

<1%

18

Submitted to International University of Japan

Student Paper

<1%

19	"The Sustainable Global Marketplace", Springer Science and Business Media LLC, 2015 Publication	<1%
20	staffnew.uny.ac.id Internet Source	<1%
21	journal-of-marketing-management-and-consumer-behavior.com Internet Source	<1%
22	pure.uva.nl Internet Source	<1%
23	www.its.ucdavis.edu Internet Source	<1%
24	Submitted to Tshwane University of Technology Student Paper	<1%
25	Submitted to University of Newcastle Student Paper	<1%
26	emrbi.org Internet Source	<1%
27	Journal of Research in Interactive Marketing, Volume 4, Issue 3 (2010-08-21) Publication	<1%
28	Submitted to University of Johannesburg Student Paper	<1%

29	<b>Submitted to Argosy University</b> Student Paper	<1%
30	<b>Submitted to University of Surrey Roehampton</b> Student Paper	<1%
31	<b>Submitted to President University</b> Student Paper	<1%
32	<b>www.graduate.au.edu</b> Internet Source	<1%
33	<b>Journal of Islamic Marketing, Volume 4, Issue 2 (2013-06-08)</b> Publication	<1%
34	<b>etd.auburn.edu</b> Internet Source	<1%
35	<b>Submitted to Universitas Indonesia</b> Student Paper	<1%
36	<b>www.meta-tags.com</b> Internet Source	<1%
37	<b>Submitted to Glyndwr University</b> Student Paper	<1%
38	<b>Submitted to Polytechnic of Namibia</b> Student Paper	<1%
39	<b>Submitted to University of Huddersfield</b> Student Paper	<1%

40	<a href="http://link.springer.com">link.springer.com</a> Internet Source	<1%
41	<a href="http://dspace.spbu.ru">dspace.spbu.ru</a> Internet Source	<1%
42	Submitted to University of Hull Student Paper	<1%
43	<a href="http://www.csulb.edu">www.csulb.edu</a> Internet Source	<1%
44	<a href="http://jurnaljam.ub.ac.id">jurnaljam.ub.ac.id</a> Internet Source	<1%
45	<a href="http://download.atlantis-press.com">download.atlantis-press.com</a> Internet Source	<1%
46	Submitted to Lingnan University Student Paper	<1%
47	Submitted to National University of Singapore Student Paper	<1%
48	<a href="http://www.uva.fi">www.uva.fi</a> Internet Source	<1%
49	Submitted to University of St Andrews Student Paper	<1%
50	<a href="http://asbbs.org">asbbs.org</a> Internet Source	<1%
51	Submitted to Vrije Universiteit Amsterdam Student Paper	<1%

<1%

52

[www.emeraldinsight.com](http://www.emeraldinsight.com)

Internet Source

<1%

53

D. Gefen, V. Srinivasan Rao, N. Tractinsky.  
"The conceptualization of trust, risk and their  
electronic commerce: the need for  
clarifications", 36th Annual Hawaii International  
Conference on System Sciences, 2003.  
Proceedings of the, 2003

Publication

<1%

54

Submitted to Vels University

Student Paper

<1%

55

[www.87994.com](http://www.87994.com)

Internet Source

<1%

56

[www.csse.monash.edu.au](http://www.csse.monash.edu.au)

Internet Source

<1%

Exclude quotes On

Exclude matches Off

Exclude bibliography On