

2017-03-10

Why Do Consumers Trust Online Travel Websites? Drivers and Outcomes of Consumer Trust toward Online Travel Websites

El-Masry, AA

<http://hdl.handle.net/10026.1/5301>

10.1177/0047287516643185

Journal of Travel Research

sagepub.com/journalsPermissions.nav

All content in PEARL is protected by copyright law. Author manuscripts are made available in accordance with publisher policies. Please cite only the published version using the details provided on the item record or document. In the absence of an open licence (e.g. Creative Commons), permissions for further reuse of content should be sought from the publisher or author.

Journal of Travel Research

Why do consumers trust online travel websites? Drivers and outcomes of consumer trust towards online travel websites

| | |
|------------------|---|
| Journal: | <i>Journal of Travel Research</i> |
| Manuscript ID | JTR-15-11-29.R2 |
| Manuscript Type: | Empirical Research Articles |
| Keywords: | Intentions to purchase, Online travel shopping, Online trust, Attitude, Perceived risk, Travel websites |
| Abstract: | Egypt is currently one of the leading nations especially in the Middle East region with a well-established e-commerce environment and advanced IT infrastructure, but rapid growth of e-commerce will soon occur in other nations with similar consumption patterns. This study tests a model of antecedents (consumer experience, propensity to trust, reputation, perceived website size, ease of use, perceived usefulness, and website quality) and consequences of consumers trust towards online travel websites. Trust is expected to predict consumer attitude, perceived risk, and intention to purchase travel online. Data of 1431 users of online travel websites were selected from the Supreme Council of Universities Database-Egypt (SCU) and analysed through structural equation modelling. The findings show that all the aforementioned factors with the exception of consumer experience influence consumer trust towards online travel websites. Trust influences consumers' attitude, perceived risk, and intention to purchase travel online. |
| | |

SCHOLARONE™
Manuscripts

Why do consumers trust online travel websites? Drivers and outcomes of consumer trust towards online travel websites

Abstract

Egypt is currently one of the leading nations especially in the Middle East region with a well-established e-commerce environment and advanced IT infrastructure, but rapid growth of e-commerce will soon occur in other nations with similar consumption patterns. This study tests a model of antecedents (consumer experience, propensity to trust, reputation, perceived website size, ease of use, perceived usefulness, and website quality) and consequences of consumers trust towards online travel websites. Trust is expected to predict consumer attitude, perceived risk, and intention to purchase travel online. Data of 1431 users of online travel websites were selected from the Supreme Council of Universities Database- Egypt (SCU) and analysed through structural equation modelling. The findings show that all the aforementioned factors with the exception of consumer experience influence consumer trust towards online travel websites. Trust influences consumers' attitude, perceived risk, and intention to purchase travel online.

Keywords: Intentions to Purchase; Online Travel Shopping; Online trust; Attitude; Perceived risk.

Introduction

The rapid development of information and communication technology (ICT) has largely changed the hospitality and tourism industries (Ho & Lee, 2007; Ip, et al., 2011). Operations in hospitality and tourism have been significantly influenced by the advent of the Internet (Amaro & Duarte, 2015; Gregori, et al., 2014). The Internet is an effective marketing tool that facilitates information communication between sellers and customers (Buhalis & Law, 2008). Thus, websites have become a platform for promoting products and services and another channel to generate revenue by attracting more customers (Chiou, et al., 2010). With the rapid development and the increasing use of websites for information seeking and electronic commerce (e-commerce), trust has become a crucial factor in attracting customers (Beldad, et al., 2010). Internet has come as a new way of communication and selling for travel companies (Law & Wong, 2003; Llach, et al., 2013). In recent years, Egypt travel companies have faced massive challenges due to the changing character of the travel industry. For decades, hotels sector, airlines, and cruise lines industry had been dependent on intermediaries to sell their products to consumers. Internet as a new distribution channel will help travel providers to reach consumers directly and help travel providers to save money (Zhou, 2004). Furthermore, the emergence of the Internet brought lower prices and time savings for consumers (Heung, 2003).

The Internet is now a paramount distribution channel for travel companies (Lee & Morrison, 2010). Travel business on the Internet accounts for 15 per cent of overall travel sales (US Census Bureau, 2003). A forecast from the Market Intelligence Centre (MIC) (2009) reported that the online travel product category is the Internet's largest commercial area (48.9%), generating a worldwide revenue over 446 billion United States dollars (USD) in 2014. Sales of online travel worldwide grew 10% between 2011 and 2014 and predictions

1
2
3 until 2016 have shown that sales of online travel worldwide will grow at 8% yearly (Statista,
4
5 2015).

6
7 A survey research reveals that the success of online shopping is determined mostly by
8
9 consumer intentions to purchase (Park, 2010). Unlike Internet consumers in Egypt and other
10
11 emerging economies, however, Egyptian consumers are well known for fickle consumption
12
13 patterns and lack of e-commerce trust, both of which pose major challenges to online
14
15 shopping businesses (El-Ansary & Roushdy, 2013).

16
17 E-commerce can increase the value of an Internet network in many respects but there are
18
19 still some obstacles to overcome. Firstly, the problems related fraud on the internet are
20
21 increasing every year. Secondly, the problems caused by spyware and other security
22
23 vulnerabilities make consumers feel worried about their information provided on this network
24
25 (Wang & Lin, 2008). To avoid these uncertainties, some online shoppers are more inclined to
26
27 buy from traditional stores (Moyano, et al., 2012). Moreover, lack of touch and feel in online
28
29 shopping can also lead to hesitation among the shoppers. They can feel more risk when
30
31 interacting with online stores than traditional ones (Gefen & Straub, 2003). In order to reduce
32
33 the possibility of interaction with ineligible vendors, online shoppers need to rely on their
34
35 experience and other evidences to determine which websites can be trusted (Gefen & Straub,
36
37 2003; Moyano, et al., 2012; Kim, et al., 2005). Trust, therefore, serves as a foundation for
38
39 initial relationship and being more important to maintain a long-term relationship for e-
40
41 commerce success (Chen & Barnes, 2007; Gefen & Straub, 2003; Kim, et al., 2005; Moyano,
42
43 et al., 2012; Kim, et al., 2008; Ren & Hassan, 2008; Yaobin & Tao, 2007).

44
45 Customer trust is an essential factor of e-commerce, and understanding its drivers and
46
47 outcomes is a main concern for the following reasons. First, the drivers of trust enable us to
48
49 know the relative importance of aspects influencing trust. Understanding these variables
50
51 would play a crucial role in devising suitable measures to facilitate trust. Second, the
52
53
54
55
56
57
58
59
60

1
2
3 outcomes of trust enable us to better understand the importance of trust and its influence on
4
5 online buying behaviour.
6

7 Numerous studies have attempted to examine trust as a critical determinant of consumer
8 intentions to purchase in e-commerce (e.g. Flavian, et al., 2006; Jarvenpaa, et al., 2000;
9 Yoon, 2002; Lee & Turban, 2006; Pavlou & Fygenson, 2006; Hsu Meng-Hsiang, et al.,
10 2014), However, little attention has been paid to trust towards online travel websites (Ayeh,
11 et al., 2013; Yoo & Gretzel, 2009; Filieri, 2015) and whether trust effect on travel customer
12 behaviour. The questions that arise are: Why do consumers trust online travel websites? Does
13 trust in online travel websites affect consumer attitude and intentions to purchase from these
14 websites? The present research attempts to provide an answer to these questions. Such an
15 integrated approach to examine the drivers and outcomes of trust is also lacking in the studies
16 of Egyptian online travel companies. Teo and Liu (2007) noted that most of the research on
17 consumer trust focuses on consumers in English-speaking countries and newly industrialized
18 countries. Law, et al., (2009) also noted that relationship marketing research in tourism and
19 hospitality industry focuses mainly on the supplier marketing activities of firms and less
20 attention has been paid to the consumer side of the exchange process. Research addressing
21 online travel shopping presents contradictory results and is typically fragmented (Amaro &
22 Duarte, 2013).
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42

43 This research adopts a distinctive way to analyse the factors influence consumers trust
44 towards online travel websites and the influence of trust on consumer attitude, perceived risk,
45 and intentions to purchase travel online, by proposing and empirically testing an integrated
46 model, with contributions from well-grounded theories, namely Technology Acceptance
47 Model (TAM) (Davis, 1986), Beldad et al.'s (2010) model, and The theory of reasoned action
48 (TRA) (Fishbein & Ajzen, 1975) contributing to the current literature since, to the best of
49 knowledge, this has not been done in any other study. Therefore, the current study aims to
50
51
52
53
54
55
56
57
58
59
60

1
2
3 contribute the following to the literature of tourism and hospitality: 1) identify the
4 determinants that effect consumer's trust towards online travel websites; 2) by integrating the
5 Technology Acceptance Model (TAM), The theory of reasoned action (TRA), Beldad et al.'s
6 (2010) model, this study helps to understand consumers' trust towards online travel websites;
7
8 3) investigate the effect of trust on consumer attitude, perceived risk, and intentions to
9 purchase travel online. The findings will help online travel companies' managers to evolve
10 strategies that enhance consumers' trust towards online travel websites; consequently,
11 attitude and intentions to purchase travel online.
12
13
14
15
16
17
18
19

20
21 Our study is organized as follow; the next section represents literature pertaining to the
22 study variables and theories as well as the hypotheses development. Then we demonstrate our
23 data collection and measures operationalization. Finally, study results, discussion, and
24 managerial implications have been explained as well as demonstrating the limitations and
25 future research.
26
27
28
29
30
31
32
33

34 **Tourism in Egypt: brief background**

35
36 Egypt, although often considered to be Middle East, is located in Northern Africa,
37 bordering the Mediterranean Sea, between Libya and the Gaza Strip, and the Red Sea north
38 of Sudan, and includes the Asian Sinai Peninsula. Egypt is part of the Mediterranean basin,
39 the world's top destination area, which attracts one out of every three tourists travelling in the
40 world (Morakabati, 2007). Tourism is one of the most important parts of Egypt's economy.
41 At its peak in 2013 the sector employed about 12.6 % of Egypt's workforce, serving
42 approximately 14.7 million visitors, and providing revenues of nearly \$19 billion (Egyptian
43 Ministry of Tourism, 2014). Tourism is the country's second biggest source of income after
44 the revenue received from the Suez Canal and accounted for 11.3% of GDP and 14.4% of
45 foreign currency revenues (Egyptian Ministry of Tourism, 2014).
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 The main attraction for tourists to Egypt are the site of ancient Egypt, Cairo and its
4
5 environs, Luxor, Karnak, Abu Simbel, temples and tombs along the Nile River and the
6
7 Mediterranean port city of Alexandria. However, the Egyptian tourism industry has actively
8
9 promoted other destinations within Egypt, including Hurghada on the Red Sea, the Sinai
10
11 Peninsula and parts of the western desert. The completion of Israel's removal from Sinai in
12
13 1982 led to considerable private and government tourist investment, which facilitated the
14
15 development and establishment of several high-quality tourism resorts in the Sinai, which are
16
17 popular among tourists from Europe and neighbouring Israel (Beirman, 2003).
18
19

20
21 The Egyptian economy depends mainly on agriculture, media, Suez Canal, tourism, the
22
23 transferred income of more than 5 million Egyptians working abroad (mainly in Saudi
24
25 Arabia, the Gulf area and Europe) and petroleum and gas exports (El-Gohary, 2012). In the
26
27 last 30 years, the Egyptian government has started reforming the highly centralized economy
28
29 from the sixties and med seventies era into a totally market liberalization economy. But
30
31 regardless of that, the high level of political, social and economic corruption within the
32
33 country did not allow any chance of improving the country poor economic performance. As a
34
35 result, the people of Egypt turned against Hosni Mubarak regime and got rid of this corrupted
36
37 regime through the 25th of January 2011 revolution. Although the revolution was demanded
38
39 and conducted by the people, it led to major chaos in the whole country, which affected badly
40
41 all sectors including tourism and travel sector. The industry has been losing \$25 million
42
43 dollars per day since the 1st of February 2011 (El-Gohary, 2012). Building online trust by
44
45 Egyptian travel organizations can be a very important tool in solving the current problems
46
47 associated with Egyptian travel industry as a result of the political unrest not only in Egypt
48
49 but also in the Middle East.
50
51
52
53
54
55
56
57
58
59
60

Research Model and Hypotheses

In traditional commerce, the trust-building process is affected by the characteristics of customers, salespersons, the company, and interactions between the two parties involved. This is also true in the context of electronic commerce. Numerous studies have identified several drivers of trust and most of these studies concentrated on transacting websites (Beldad et al., 2010). Kim et al. (2008) conceptualized the key antecedents of consumer trust into four groups: cognition-based, affect-based, experience based, and personality-oriented antecedents. The cognition-based trust antecedents are the antecedents that relate to the capability that shoppers perceive the target website (e.g. privacy concern, security protection, system reliability, information quality). The affect-based trust antecedents are regarded as indirect interactions from other parties (e.g. reputation, preferences of third-party seals, word-of-mouth, social feedback). The experience-based trust antecedents are associated with shopper experience (e.g. familiarity, internet experience, e-commerce experience). And lastly, the personality-oriented trust antecedents are related to personal characteristics (e.g. disposition to trust, shopping style).

Beldad et al. (2010) classified the antecedents of trust into three main categories: company-based antecedents, like company reputation; consumer-based antecedents, for instance consumer experience with the technology; and website-based antecedents, for instance the information quality used by the website.

This study adapts Beldad et al.'s (2010) framework in order to investigate the drivers of trust toward online travel websites in the travel and tourism industry. Beldad et al.'s (2010) framework has been adapted in this study because it is an online trust-building framework that suits both profitable and non-profitable firms; furthermore it has not yet received empirical validation for online travel websites, and includes a number of links that have not been tested in a single model which increase the originality of the current study.

1
2
3 To summarize, the key antecedents of consumer trust have been conceptualized into three
4 categories: consumer-based antecedents (e.g. Consumer experience and propensity to trust),
5
6 company based antecedents of trust (e.g. company reputation and perceived size), and
7
8 website-based antecedents of trust (e.g. perceived ease of use, perceived usefulness, and
9
10 website quality). Moreover, the current study also investigates the consequences of consumer
11
12 trust towards online travel websites e.g. perceived risk, attitude, and intention to purchase
13
14 travel online. Therefore, this study examines the influence of consumers' trusting beliefs on
15
16 their attitudes to the online travel provider and their risk perception. Consumers' attitudes to
17
18 the online travel provider and their perceived risk, in turn, affect their willingness to purchase
19
20 travel online. The research model and hypotheses are shown in Fig. 1
21
22
23
24
25
26
27

28 **“Insert Figure 1 here”**
29
30
31

32 **Consumer-Based Trust Antecedents**

33 **Consumer Experience and Proficiency**

34
35
36 Beldad et al. (2010) pointed out that the level of user experience in using online shopping
37
38 is an important aspect to consider when examining the antecedents of trust. Aiken and Boush
39
40 (2006) indicated that higher levels of experience lead to low levels of trust in online stores.
41
42 An explanation is that consumers with high levels of experience have sufficient skills and
43
44 knowledge of possibilities that things online may go wrong any time (Aiken & Boush, 2006).
45
46 Nevertheless, some studies found that levels of user experience influence on consumer
47
48 propensity to trust Internet, therefore improving their trust in Internet-based transactions
49
50 (Corbitt et al., 2003).
51
52
53

54 In the current study, it has been supposed that consumers who have sufficient experience
55
56 with using online travel websites may feel more confident of not being deceived by unreliable
57
58
59
60

1
2
3 websites. Experienced consumers may have sufficient knowledge and skills that enable them
4
5 in how to spot unreliable websites. While, first-time consumers have no experience about the
6
7 online travel websites and maybe result in more cautious behaviour towards online travel
8
9 websites and they will not be aware of how to distinguish between reliable and unreliable
10
11 websites. In online travel context, research has supported the positive and significant
12
13 relationship between users experience and trust towards online travel websites (Filieri, 2015;
14
15 Le & Jeong, 2014; Brakus et al., 2009). Therefore, in the travel sector, the following
16
17 hypothesis has been proposed.
18
19

20 **H1.** Consumers experience with using online travel websites positively influences trust
21
22 towards online travel websites.
23
24

25 26 27 **Propensity to Trust**

28
29 Propensity to trust plays an important role in economic transactions because it decreases
30
31 perceived risk (Humphrey & Schmitz, 1998; Mukherjee & Nath, 2007). This is especially
32
33 essential in the case of online context, where the consumers and the sellers are physically
34
35 separated. Some studies suggested that customers with low propensity to trust tend to have
36
37 negative views when faced risky situations (Falcone, et al., 2001; Graziano & Tobin, 2002).
38
39 Such propensity reduces their desire to try new things. On the other hand, customers with
40
41 high propensity to trust tend to have positive views and accepting to try new things (Graziano
42
43 & Tobin, 2002).
44
45

46
47 Mayer et al. (1995) pointed out that consumers vary in trust amount they extend to their
48
49 sellers. In the online context, some consumers are more likely to trust online service
50
51 providers despite the limited information they have about them, while others need more
52
53 information about their online services providers to form trusting beliefs (Salam, et al., 2005).
54
55
56
57
58
59
60

1
2
3 However, prior studies on the influence of propensity to trust on the formation of online trust
4 present contradictory results (Beldad et al., 2010).
5
6

7
8 Prior studies have found a direct and positive link between propensity to trust and the
9 formation of online trust (Gefen, 2000; Teo & Liu, 2007; Beldad et al., 2010). The influence
10 of propensity to trust is directly related to trust formation based on the systems trust attributes
11 (Beldad et al., 2010). In this study, it is argued that online travellers with a high propensity to
12 trust perceive the risk to be less and therefore have more trust in online travel websites. Based
13 on these arguments, the following hypothesis is posited:
14
15
16
17
18
19

20
21 **H2.** Propensity to trust positively influences consumers' trust towards online travel websites.
22
23

24 25 26 **Company-Based Trust Antecedents**

27 28 **Company Reputation**

29
30 Company reputation has been suggested frequently as an important factor that contributes
31 to customer trust. Some studies pointed out that a positive company reputation results in
32 trusting relationship among consumers and company, while the existence of a negative
33 company reputation result in a less trusting relationship between consumers and company
34 (Smeltzer, 1997; Beldad et al., 2010; Herbig et al., 1994) pointed out that when the company
35 fails to fulfil their intentions that results in the destruction of its reputation.
36
37
38
39
40
41
42
43

44 In the electronic commerce context, the reputation definition can be understood in two
45 points. First, reputation can be seen as a collective measure of trustworthiness according to
46 members' ratings in a community (Josang et al., 2007). Second, it is a measure of a
47 company's credibility, which results from the relationship among the company promises and
48 fulfilments (Casalo et al., 2007). Toms and Taves (2004) pointed out that a positive online
49 company reputation can be formed through the assessment of third party like the rating
50 services on the website and indirectly throw the linking of website. Vermeulen and Seegers
51
52
53
54
55
56
57
58
59
60

(2009) revealed that consumers' feedback influence on the reputation of the hotel and the attitude toward it.

Numerous empirical studies revealed that the positive reputation of online service providers significantly influenced consumers' trust in online vendors (Chen, 2006; Teo & Liu, 2007; Gregori, et al., 2014). Consumers who don't have an experience with an online service provider rely on the reputation of that online provider in order to assess the trustworthiness of that online service provider (Chen, 2006; Koufaris & Hampton-Sosa, 2004). Empirical evidence supports the relationship between reputation and consumer trust has been provided by previous studies (e.g., Kim, et al., 2004; Teo & Liu, 2007; Hsu, et al., 2014; Han, et al., 2015). Chen (2006) and de Ruyter et al.(2001) pointed out that online travellers are more likely to trust websites that owned by well-known and well-respected companies. Thus, the authors propose the following hypothesis:

H3. Website reputation positively influence consumers trust towards online travel websites.

Perceived Size

Doney and Cannon (1997) defined a website size as the market share and its overall size. Griffin and Hauser (1993) revealed that a firm with a large market share and overall size suggest that the seller keep its promises to its customers and many customers tend to trust it. Firms that don't keep its promises with consumers will not be able maintain its position (Doney & Cannon, 1997). Chow and Holden (1997) pointed out that a firm with a large size can encourage consumers to trust that firm. Teo and Pian (2003) revealed that larger organisational size also has a developed websites to encourage transactions with customers. In the context of e-commerce, e-vendor with large size can reduce the risk of product and compensate consumers accordingly (Jarvenpaa et al., 2000). E-vendors size positively influences on consumer trust toward it (Jarvenpaa et al., 2000). Consumers can deduce

1
2
3 trustworthiness from a website size since larger website size means that the website could
4 handle any failure and losses on the transaction process and compensate them (Beldad et al.,
5 2010; Jarvenpaa et al., 2000; Hsu et al., 2014). Furthermore, some studies have pointed out
6 that the vendor size is positively associated with customer trust in that vendor (Kim & Ahn,
7 2006; Ku, 2012; Hsu Meng-Hsiang et al., 2014). Hence, it follows that:
8
9
10
11
12

13
14 **H4.** The perceived size of an online travel website positively influence consumers trust
15 towards online travel websites.
16
17

18 19 20 21 **Website-Based Trust Antecedents**

22 23 **Perceived Ease of Use**

24
25 Based on the prior studies, numerous studies applied several theoretical perspectives in
26 order to explain and understand consumers' acceptance and use of new technology. Of these,
27 the TAM considers the most effective approach to investigating consumer acceptance and use
28 of technology related application (Ayeh, 2015; Kim et al., 2009). The technology acceptance
29 model (TAM) was initially proposed by Davis (1986). The TAM theory postulates that
30 individuals' perceptions about ease of use and usefulness are two cognitive factors that
31 determine their acceptance of information system. TAM has received substantial empirical
32 support in explaining consumer acceptance of various types of technology e.g. technology
33 based services (Zhu & Chan, 2014), smart phones (Joo & Sang, 2013) and the new media
34 (Workman, 2014).
35
36
37
38
39
40
41
42
43
44
45
46

47
48 In tourism and hospitality context, numerous studies applied TAM to understand and
49 explain consumer acceptance of new technology including hotel front office systems (Kim et
50 al., 2008), consumer intention to shop travel online (Amaro & Duarte, 2015 and Casaló et al.,
51 2010), biometric systems adaption in hotels (Morosan, 2012), and restaurant computing
52
53
54
55
56
57
58
59
60

1
2
3 systems (Ham, et al., 2008). The findings of these studies show that perceived ease of use and
4
5 perceived usefulness are crucial determinants of consumer acceptance of new technology.
6

7 Perceived ease of use has been defined as “the degree to which a person believes that
8 using a particular system would be free of effort” Davis (1989, p.320). In the current study,
9
10 perceived ease of use is defined as the extent to which the online travellers believes that
11
12 online travel website is ease to use. Research has supported the positive and significant
13
14 relationship between perceived ease of use and consumer trust (Gefen et al., 2003; Tung, et
15
16 al., 2008). Thus, the authors propose the following hypothesis:
17
18
19

20 **H5.** Perceived ease of use positively influences consumers’ trust towards online travel
21
22 websites.
23
24
25
26

27 **Perceived Usefulness**

28
29 Davis (1989, p. 320) conceptualised perceived usefulness as “the degree to which a person
30
31 believes that using a particular system would enhance his or her job performance”. In our
32
33 study, perceived usefulness refers to the extent to which the consumer believes that using
34
35 online travel websites improves his/her travel planning.
36
37

38 While some researchers Palvia (2009) proposed ‘perceived usefulness’ as an antecedent to
39
40 transaction intention based on technology acceptance model (TAM), to the best of
41
42 knowledge, no existing study specified perceived usefulness as an antecedent to trust. As
43
44 Gefen et al. (2003) suggested it would make more sense to postulate that perceived
45
46 usefulness is a consequence, not an antecedent, of trust in an e-commerce firm. A business
47
48 relationship developed based on trust provides a measure of subjective guarantee that the e-
49
50 commerce firm will behave with good will and that the outcome of a transaction will be fair
51
52 and favourable, and thus increase the benefits of transacting on the e-commerce website that
53
54 consumers come to perceive as more useful (Gefen et al., 2003). In support of this notion,
55
56
57
58
59
60

1
2
3 Agag and El-Masry (2016a,b) found a significant path from perceived usefulness and
4
5 consumer trust toward online travel community websites. Therefore, it is decided to rule out
6
7 perceived usefulness as a trust antecedent from our model. Hence, the hypothesis:
8

9
10 **H6.** Perceived usefulness positively influences consumers' trust towards online travel
11
12 websites.
13

14 15 16 **Website Quality**

17
18 A website is the main communication channel between customers and firms (Casalo, et al.,
19
20 2008) and therefore the websites quality play a crucial role in the success of online shopping
21
22 (Hsu, et al., 2015). Website quality is defined as “users’ evaluation of whether a web site’s
23
24 features meet users’ needs and reflect the overall excellence of the web site” Chang and Chen
25
26 (2008, p. 821). DeLone and McLean (2003) pointed out that website quality includes three
27
28 distinct dimensions: information quality, system quality, and service quality. Numerous
29
30 studies have adopted DeLone and McLean (2003) approach (e.g. Ho et al., 2010; Cheng &
31
32 Huang, 2013; Liu & Zhang, 2014).
33
34
35
36

37
38 In the current study, information quality refers to consumers perceptions about online
39
40 travel website information quality, privacy, and security. Furthermore, system quality of
41
42 online travel website refers to consumers perceptions about website availability, adaptability,
43
44 and response time. Finally, service quality describes consumers’ perceptions about
45
46 responsiveness, empathy, and assurance.
47

48
49 In the e-commerce field, prior studies have confirmed the positive link between website
50
51 quality and consumer trust (McKnight, et al., 2002). In the field of tourism and hospitality e-
52
53 commerce, a significant and positive relationship between website quality and consumer trust
54
55 is supported by Filieri (2015); Kim et al.(2011); Wang et al.(2015). If an online travel website
56
57 is perceived as secure and safe, eases customers' navigation, responsiveness, empathy, and
58
59

1
2
3 assurance. The consumer of such online travel website will form a positive impression of the
4
5 online travel website, which ultimately will be perceived as reliable. Accordingly, the
6
7 following hypothesize has been posited:
8
9

10 **H7.** Website quality positively influences consumers' trust towards online travel websites.
11
12
13
14
15

16 **Consequences of Consumer Trust**

17

18 Trust is conceptualised as the subjective belief that the online provider will fulfil its
19 transactional obligations, as those obligations are understood by the consumer (Kim et al.,
20 2008). Although the crucial role of trust in online context, Kim et al. (2011) pointed out that
21 there is a scant of research on trust in online context for tourism products. Trust in websites
22 plays a paramount role in e-commerce, because consumers are unlikely to shop online if they
23 do not trust the website (Kim et al., 2011).
24
25
26
27
28
29
30
31
32

33 The main dependent variable of the model is consumer intentions to purchase travel online.
34 This variable has been derived from Theory of Reasoned Action (TRA), which postulates that
35 behavioural intention is the main predictor of actual behaviour (Fishbein & Ajzen, 1975).
36 Behavioural intentions have been uses as a strong predictor of actual behaviour in online
37 shopping context (Ajzen, 2011; Lin, 2007; Casaló et al., 2010). Furthermore, in the context of
38 online travel shopping, behavioural intentions have been posited as the best predictor of
39 actual behaviour (Moital et al., 2009; Amaro & Duarte, 2015; Ponte et al., 2015). Therefore,
40 due to the difficulties regarding measuring consumer real behaviour, this study focuses on
41 behavioural intentions as the best predictor of consumer actual behaviour.
42
43
44
45
46
47
48
49
50
51
52
53
54
55

56 **Consumer Trust, Attitude, and Intention to Purchase**

57
58
59
60

1
2
3 The theory of reasoned action (TRA) examines the relationships between attitudes, beliefs,
4 intentions, and behaviours (Ajzen & Fishbein, 1980). The theory emphasizes that consumers'
5 intention is determined by their attitudes toward the behaviour, and their attitudes are affected
6 by their beliefs. The theory has been widely applied and accepted in many contexts and
7 disciplines. Prior studies revealed that trust is significantly related to attitude, and attitude is
8 significantly related to consumer intention (Chow & Holden, 1997; Macintosh & Lockshin,
9 1997). The theory of reasoned action (TRA) has been also applied as the theoretical base in
10 some studies on trust formation (McKnight et al., 2002; Mcknight & Chervany, 2001),
11 especially in the e-commerce context (Teo & Liu, 2007).

12
13
14 In the e-commerce field, several prior studies have confirmed the positive link between
15 trust and the intentions to purchase online (Chiu et al., 2010; Gefen et al., 2003; Kim et al.,
16 2012). In the field of tourism and e-commerce, a significant and positive relationship between
17 trust and purchase intention is supported by a variety of studies e.g., (Bigne, et al., 2010;
18 Escobar-Rodríguez & Carvajal-Trujillo, 2014; Kim et al., 2011; Sanz-Blas et al., 2014;
19 Amaro & Duarte, 2015; Ponte et al., 2015; Agag and El-Masry, 2016a,b).

20
21
22 Alsajjan and Dennis (2010) found that trust influences consumer attitude and intention to
23 engage in behaviour. Consumers who trust in online service provider websites will have a
24 positive attitude toward this online service provider websites and more likely to repurchase.
25 In support of this notion, Amaro and Duarte (2015), Ashraf et al. (2014), and Aye et al.
26 (2013) found a significant path from trust to customer attitude and repurchase intentions.
27 Hence, the following hypotheses are proposed.

28
29
30 **H8.** Consumer trust towards online travel website positively influences their attitude toward
31 this website.

32
33
34 **H9.** Consumer attitude towards online travel website positively influences their intention to
35 purchase from this website.

Consumer Trust, Risk Perception, Attitude, and Intention to Purchase

Consumers' perceived risks associated with online shopping have received limited attention despite their implications for e-commerce (Amaro & Duarte, 2015). Jarvenpaa and Todd (1997) have deemed perceived risk to be a major obstacle to the future growth of e-commerce. The current study focuses on risks related to the Internet as a method for purchasing and not the travel online service itself. Therefore, perceived risk refers to the potential loss perceived by a customer in considering travel online shopping when compared to the purchase of travel offline.

Prior studies have evidenced a negative relationship between consumer perceived risk and consumer intentions to purchase of travel online (Jensen, 2012; Kim et al., 2009; Chen et al., 2015; Yang, et al., 2012). Other research has found that trust negatively influences perceived risk (Kamarulzaman, 2007; Amaro & Duarte, 2015). Teo and Liu (2007) pointed out that trust can reduce the consumer's perception about risk associated with online service provider opportunistic behaviour.

The theory of reasoned action (TRA) asserts that consumer's perceived risk have a negative relationship with their attitudes toward the purchasing behaviour. In an online travel context, where the transactions involve considerable risk and uncertainty, consumers' attitudes toward online travel website tends to be less positive. Prior studies pointed out that perceived risk has a negative association with attitude toward online travel website (Amaro & Duarte, 2015; Jensen, 2012).

In the e-commerce field, several prior studies have confirmed the positive link between trust and the intentions to purchase online (Chiu et al., 2010; Gefen et al., 2003; Kim et al., 2012). In the field of tourism and e-commerce, a significant and positive relationship between trust and purchase intention is supported by a variety of studies (e.g. Bigne et al., 2010; Escobar-Rodríguez & Carvajal-Trujillo, 2014; Kim et al., 2011; Sanz-Blas et al., 2014; Amaro & Duarte, 2015; Ponte et al., 2015). Therefore, in the travel sector, it is proposed.

1
2
3 **H10.** Consumer trust towards online travel website negatively influences the perceived risk
4 of online travel shopping.
5

6
7 **H11.** The perceived risk of online travel shopping negatively influences consumers' attitude
8 towards online travel website.
9

10
11 **H12.** The perceived risk of online travel shopping negatively influences consumers' intention
12 to purchase travel online.
13

14
15 **H13.** Consumer trust towards online travel website positively influences consumers'
16 intention to purchase travel online.
17

18 19 20 21 **Methodology**

22 23 **Sampling and Data Collection**

24
25 A positivist research philosophy was utilized with a quantitative approach to validate the
26 research proposed framework, quantitative data was collected using survey strategy through
27 questionnaires to address different levels of the study. The target population of the current
28 study comprises all consumers who had purchased travel products online at least once in the
29 last one year (e.g. an airline ticket, a hotel accommodation, a car rental, a cruise reservation,
30 transportation reservations, and a travel package). The travel consumers who participated to
31 this study had recent experience in the use of online travel websites for tourism-related
32 products and services (e.g. an airline ticket, a hotel accommodation, a car rental, a cruise
33 reservation, transportation reservations, and a travel package), which was assessed in
34 different ways: first, the email sent to potential respondents clearly stated that only people
35 with recent experiences with online travel websites could participate in this study; second, the
36 respondents were asked to write the name of the website where they have made online
37 purchases and indicate how frequently they used this website before. However, since there is
38 no a list of Internet shoppers across Egypt it is impossible to select our sample from the
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 population directly. Thus, convenience sampling was used to collect data (San Martín &
4
5 Herrero, 2012).
6

7
8 The first step in the process was to get permission from Egyptian tertiary institutions in
9
10 order to send the surveys to their students. In total five tertiary institutions out of twenty
11
12 seven agreed for their students to participate in this study. These institutions were Cairo
13
14 University, Alexandria University, Sadat City University, Assiut University, and the
15
16 American university in Cairo. The second step associated with the universities sending an
17
18 informed consent email explaining the study purpose, with attached URL hyperlink to all
19
20 students. The final step was to send a follow-up email, to remind students to complete and
21
22 submit the survey, one week and then one month, after the informed consent email in order to
23
24 promote higher response rates (Richardson, 2009).
25
26

27
28 Egypt has been chosen to implement the empirical part of this research for a number of
29
30 reasons. First, to the researcher's best knowledge, this is the first research to be conducted in
31
32 Egypt on online travel in the tourism sector where no previous empirical or conceptual work
33
34 exists. Thus this research represents an empirical contribution in that regard. Second,
35
36 studying a developing country like Egypt represents a valuable extension to online travel
37
38 studies that have been primarily focused on developed countries. E-commerce is highly
39
40 successful in developed countries in comparison with developing countries where
41
42 Information Communications Technology (ICT) application is still in the early stages
43
44 (Aldmour & Shannak , 2009; Bhuasiri, et al., 2012); this led to the digital divide between
45
46 developed and developing countries (Aldmour & Shannak, 2009). This obvious when
47
48 revising the previous literature which confirmed that ICT diffused rapidly in developed
49
50 countries but slowly in developing countries which led to an ICT gap or digital divide
51
52 between developed and developing countries (Aladwani, 2003), which explains why
53
54 developing countries always are latecomers to ICT. Businesses in developing countries face
55
56
57
58
59
60

1
2
3 different challenges from those in developed countries (Molla and Licker, 2005) and it would
4
5 be really useful to discover whether the same factors influence consumers trust in online
6
7 travel websites as in developed countries. Third, Egypt is one of the top countries worldwide
8
9 in terms of tourism growth potential, and thus is expected to make large benefits by
10
11 investigating drivers and outcomes consumers trust towards online travel websites. It is
12
13 therefore important to consider what factors can lead travellers in Egypt to trust online travel
14
15 websites. Gaining knowledge of the drivers and outcomes of consumers trust in online travel
16
17 websites could provide valuable information that would help enhance the competitiveness of
18
19 the tourism industry in Egypt.
20
21
22

23 Data were collected using a Web-based survey. The use of such a uniform data collection
24
25 method helps to minimize social desirability bias and controls for response styles (de Leeuw,
26
27 2008). Besides, online surveys have been applied successfully in recent hospitality and
28
29 tourism research (e.g. Gardiner et al., 2012; Eid & El-Gohary, 2015; Zhang et al., 2016).
30
31 Furthermore, an online method of distribution was appropriate for this study as it facilitated a
32
33 national geographic dispersal of the survey (Aaker et al., 2007).
34
35

36 In July of 2015, Recruitment e-mails were sent directly to faculty members at the five
37
38 tertiary institutions in Egypt asking students to complete the online survey. A screening
39
40 question was formulated in the first section to identify eligible respondents; the screening
41
42 question asked whether the respondent had made online purchases of travel products in the
43
44 past 6 months. Positive answers enabled respondents to proceed with the survey. College
45
46 students were chosen because they not only represent a vulnerable and significant Internet
47
48 user, but they are also an important cohort, Generation Y, to online retailers (National Retail
49
50 Federation, 2007; Jai, et al. 2013). They have the highest Internet usage of any other cohort
51
52 and their online buying and purchasing behaviour is representative of technology savvy users
53
54 (Fox & Madden, 2005; Larose & Rifon, 2007; Jai et al., 2013). Student samples have often
55
56
57
58
59
60

1
2
3 been used in online shopping research (e.g. Kim et al., 2007; Ashraf et al., 2014; Jai et al.,
4
5 2013; Elbeltagi & Agag, 2016; Agag & El-Masry, 2016b). This is justifiable as students have
6
7 few troubles in using new technology and are computer literate (Ashraf et al., 2014). Students
8
9 have actual online experiences and are potential consumers of electrical goods (Yoo &
10
11 Donthu, 2001), and their technological advances and innovativeness qualify them as a
12
13 suitable sample for online shopping research (Yoo & Donthu, 2001). The e-mail invitations
14
15 provided respondents with information on the purpose of the study, the approximate time to
16
17 fill out the questionnaire, and a banner with a hyperlink connecting to our web survey.
18
19

20
21 A pilot test was conducted to assess the validity and reliability of the research instrument.
22
23 The instrument was given to a group of fifty postgraduate students at Sadat City University in
24
25 Egypt who mentioned that they had used and were familiar with online travel websites. Their
26
27 comments resulted in refinement of the instrument in terms of its length, format, readability,
28
29 and clarity. Twenty online travel managers were also asked to review the questionnaire. This
30
31 review resulted in elimination of a specific item measuring perceived risk. The exclusion of
32
33 this item did not pose a major threat to construct validity, since there were three additional
34
35 items assessing perceived risk. Some wording changes were also made.
36
37

38
39 The participants in this study were randomly selected from the Supreme Council of
40
41 Universities Database- Egypt (SCU). The participants from the SCU were not self-selected,
42
43 but were recruited using probability sampling methods where e-mail addresses were
44
45 randomly picked by a generated sampling system, similar to the random digital dialling
46
47 (RDD).
48
49
50
51

52 **“Insert Table 1 here”**
53
54
55
56
57
58
59
60

1
2
3 The questionnaire was available online between July 20th and September 15th of 2015. As
4 shown in Table 1, the initial e-mails were sent to 3800 respondents, randomly picked by the
5 system from the SCU. Probability sampling takes place when the probability of the selection
6 of each respondent is known. With this, statistical inferences on the chosen sample of Internet
7 shoppers could be made in this study. The selected respondents from the SCU could represent
8 the total population of Internet shoppers, and this approach also permits generalization. These
9 e-mails were sent with a link to a simple multiple-choice screening question asking about the
10 types of products that the respondents had purchased over the Internet in the last year. A total
11 of 3250 respondents replied to the question stating various types of products they had
12 purchased travel products online at least once in the last one year (see Table 2). From this
13 number, only 1860 respondents indicated that they had purchased travel services online. This
14 means that 1860 respondents were qualified for the actual survey, which also indicates the
15 sample size for the study. In the actual survey, email invitations were sent to all 1860
16 respondents, and a total of 1463 responses were obtained. The responses total number was
17 large, therefore, the complete case approach was used (Hair, et al., 2010) and all responses
18 with missing values (32) were eliminated. Therefore, a total of 1431 responses were
19 considered to be valid for further analyses. This actually meets the suggestion by Bartlett et
20 al. (2010) and Barclay et al. (1995) that when determining the sample size for PLS
21 estimation, 10 cases per predictor as a cut off sample size. In our model, the most complex
22 regression involves the number of paths to trust construct, which are seven. Therefore,
23 according to this rule, 70 responses would be necessary as the minimum sample size for our
24 study. Since 1431 cases were collected, the current research sample size is a very good and
25 practically acceptable size for the use of PLS. Another test has been conducted using the
26 following equation suggested by Westland (2010), $n \geq 50r^2 - 450r + 1100$, where n is sample
27 size and r is the ratio of indicators to latent variables. Since 1431 cases were collected, the
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 current research sample size satisfies the lower sample size threshold for structural equation
4
5 modelling (Westland, 2010).
6
7
8
9

10
11 **“Insert Table 2 here”**
12
13

14 15 16 17 **Questionnaire and Measurements**

18
19 The questionnaire for the present study was divided into two main sections. The first
20
21 section contained questions to measure each construct based on existing measures or adapted
22
23 from similar scales. It should be noted that all constructs have a reflective measurement. The
24
25 last section of the questionnaire consisted of questions regarding respondents' demographic
26
27 characteristics e.g. gender, age and education level. To prevent duplicate responses, the
28
29 option to control and remove duplicate responses by IP was used. The research model has
30
31 eleven constructs, each having items that are gauged by Likert scale (1 = strongly disagree
32
33 and 5 = strongly agree).
34
35

36
37 The scale used to measure trust towards online travel websites was similar to a scale
38
39 adopted in previous studies (Morgan & Hunt, 1994; Kim et al., 2011; Corbitt et al., 2003;
40
41 Filieri, 2015; Kim et al., 2008) and modified based on pilot study. The scale used to measure
42
43 consumers' experience with online travel websites was adapted from Smith et al. (2005);
44
45 Filieri (2015). The measured scale of propensity to trust was generated based on related
46
47 studies (Teo & Liu, 2007; Cheung & Lee, 2001; Bianchi & Andrews, 2012). The variables of
48
49 reputation and perceived size in this study were operationalized with three items each as
50
51 suggested by Teo and Liu (2007); Doney and Cannon (1997); Jarvenpaa et al. (2000). The
52
53 variables of perceived ease of use and perceived usefulness in this study were operationalized
54
55 with three items each as suggested by Davis (1989) scales and Cheng et al. (2006) and Moore
56
57
58
59
60

1
2
3 and Benbasat (1991 and Castaneda et al. (2007). Perceived usefulness items reflect the
4
5 consumer believes that using online travel websites improves his/her travel planning.
6
7 Perceived ease of use items reflects the ease of using online travel websites, while website
8
9 quality was measured by a scale used in previous studies of online travel (Filieri, 2015; Hsu
10
11 et al., 2014; Teo et al., 2009). Attitude toward online travel websites in this study was
12
13 operationalized with three items Adapted from Chen and Wells (1999) and Castaneda et al.
14
15 (2007). For perceived risk, three items were adapted from Amaro and Duarte (2015) and
16
17 Shim et al. (2001). Finally, intentions to purchase travel online have been conceptualized as
18
19 containing of purchase intention and continued interaction. Intentions to purchase travel
20
21 online were measured by four items borrowed from Kim et al. (2012) and Mukherjee and
22
23 Nath (2007) and Bigne et al. (2010) and Castaneda et al.(2007).
24
25
26

27
28 Structural Equation Modelling (SEM) has been selected over simple regression tools
29
30 because it tests a series of dependence associations simultaneously (Hair, et al., 2010). The
31
32 partial least squares (PLS-SEM) were applied, Warp PLS 3.0 programme was utilized to
33
34 validate the measures and test the hypotheses. First, PLS minimizes the endogenous variables
35
36 residual variances, and it is also an appropriate technique to address multiple relationships at
37
38 the same time (Hair, et al., 2011; Henseler, et al., 2009). Second, a PLS approach does not
39
40 require a normal distribution, as opposed to covariance-based approaches, which requires a
41
42 normal distribution (Henseler, et al., 2012), Finally, PLS is also recommended for testing
43
44 complex frameworks (e.g. multiple mediators) (Magnusson et al., 2013).
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

Results

Descriptive Statistics

A total of 1431 respondents were surveyed online. Of these 1431 participants, 920 were men (64.0 %) and 511 were women (36.0 %). The majority of respondents were aged between 18 and 29 (41.0 %), had post-graduate education (master and doctorate) (60.0 %), and had engaged in online shopping between three to six times within the previous year (62.0 %). Although the percentage of participants with masters and doctorate is high (60% of online travel product shopping population), it actually represents 26% only out of the online shoppers. Table 3 shows the respondents' demographics.

“Insert Table 3 here”

The data shows that for the most part, these respondents have made online purchases from well-known domestic travel websites, such as Egyptair.com (largest domestic airline), Almrsl.com (largest domestic accommodation and hotel), Cairo360.com (largest domestic transportation), Selaheltelmeez.com (domestic accommodation and hotel), and Agoda.com (domestic accommodation and hotel). Respondents have also purchased from foreign travel websites predominantly at Booking.com and Tripadvisor.com. Furthermore, the most frequently purchased online travel products by respondents are hotel reservations (41%), air flight tickets (29%), transportation reservations (18%), and a car rental (12%).

Model Assessment

The evaluation of a conceptual framework using PLS analysis contains two steps. The first step includes the evaluation of the measurement (outer) model. The second step involves the evaluation of the structural (inner).

Measurement Model

Tests of normality has been conducted to satisfy the criterion of multivariate normality, namely skewness, kurtosis, and Mahalanobis distance statistics (Bagozzi & Yi, 1988), were conducted for all the constructs, Table 7 (see Appendix). These indicated no departure from normality. The Cronbach's alpha reliability coefficient was calculated in order to assess the psychometric properties of the constructs (Nunnally & Bernstein, 1994).

The first step in evaluating a research model is to present the measurement model results to examine the indicator reliability internal consistency reliability, convergent validity and discriminant validity Hair et al. (2011).

As shown in Table 4, Cronbach's alpha for all measures exceeds the recommended threshold value of 0.70 (Hair, et al., 2011). Therefore, all measures are robust in terms of their reliability. Henseler et al. (2009) pointed out that composite reliability is more suitable for PLS-SEM. In our study the composite reliabilities range from 0.84 to 0.98, which are above the 0.70 cut-off point (Bagozzi & Yi, 1988). Finally, all indicator loadings exceed the recommended threshold value of 0.60 (Henseler et al., 2009).

To assess convergent validity, according to Fornell & Larcker (1981), AVE was calculated for each constructs in our proposed model (see Table 4). Since all construct's AVE are above the 0.50 cut-off, therefore, the results support convergent validity.

“Insert Table 4 here”

Discriminant validity is considered in two steps. First, the Fornell & Larcker criterion is used to test whether the square root of a construct's AVE is higher than the correlations between it and any other construct within the model. As shown in table 5, each construct shares more variance with its own block of indicators than with another latent variable. Second, the factor loading of an item on its associated construct should be greater than the

1
2
3 loading of another non-construct item on that construct (Chin, 2010). The results, presented
4
5 in table 6, indicate that all indicators loaded on their own construct more highly than on any
6
7 other, supporting that the constructs are distinct.
8

9
10 In order to assess potential non-response bias, following the method proposed by
11
12 Armstrong & Overton (1977), we tested whether there were significant differences among the
13
14 early and late respondents. 550 respondents completed the survey during the early stage and
15
16 438 completed the survey during the late stage. The Chi-Square test did not reveal any
17
18 significant differences between early and late respondents at the 5% significance level.
19
20 Therefore, the possibility of non-response bias was excluded.
21
22

23 24 25 **“Insert Table 5 here”** 26 27

28
29 A principal component factor analysis was conducted and the results excluded the
30
31 potential threat of common methods bias (Podsakoff et al., 2003). The first (largest) factor
32
33 accounted for 36.42% (the variances explained ranges from 18.05% to 36.42%) and no
34
35 general factor accounted for more than 50% of variance, indicating that common method bias
36
37 may not be a serious problem in the data set. In addition, following the method proposed by
38
39 Liang et al. (2007), the results indicate that the substantive variance of indicators is 0.7, the
40
41 average method based variance is 0.006 and all the method factor loadings are not significant.
42
43 Therefore, we may contend that common method bias may not be a serious problem in the
44
45 data set.
46
47

48
49 Multicollinearity tests have been performed due to the relatively high correlations among
50
51 some of the constructs. All constructs had variance inflation factors (VIF) values less than
52
53 2.1, which is within the cut off level of 3.0 (Hair et al., 2011).
54
55
56
57
58
59
60

1
2
3 **“Insert Table 6 here”**
4
5
6

7 **Structural Model Assessment**
8

9
10 Since the measurement model evaluation provided evidence of reliability and validity, the
11 structural model was examined to evaluate the hypothesised relationships among the
12 constructs in the research model (Hair, et al., 2013). According to Henseler et al. (2012) and
13 Hair et al.'s (2013) recommendations, the structural model proposed in the current study was
14 evaluated with several measures,
15
16
17
18
19

20 The model explains 79% of variance for perceived website trust, 37% of variance for
21 consumer attitude, 53% of variance for perceived risk, and 59% of variance for intentions to
22 purchase travel online. To test H1–H13, the structural equation model was tested in Fig. 2.
23 The global fit indicators were acceptable, APC= (0.182, $p < 0.001$), ARS= (0.784, $p < 0.001$),
24 AARS= (0.719, $p < 0.001$), AVIF= (2.629), and GOF= (0.708). The results show that all
25 hypothesized relationships are supported except H1, H4, and H11.
26
27
28
29
30
31
32
33

34
35 Based on the results, the strongest predictors of perceived website trust were: perceived
36 ease of use ($\beta = 0.61$, $P < 0.001$), website quality ($\beta = 0.48$, $P < 0.001$), website reputation ($\beta =$
37 0.42 , $P < 0.001$), and perceived usefulness ($\beta = 0.39$, $P < 0.001$). Contrary to our predictions,
38 consumer experience and proficiency ($\beta = 0.08$, $P < \text{non-significant}$) and website size ($\beta =$
39 0.08 , $P < \text{non-significant}$) did not exhibit a significant predictive power in their relationship
40 with the dependent variable (website trust); thereby the results support hypotheses H2,
41 H3, H5, H6, and H7, while H1 and H4 are rejected.
42
43
44
45
46
47
48
49

50 Findings also show that website trust is a significant and strong predictor of consumer
51 attitude ($\beta = 0.51$, $P < 0.001$), perceived risk ($\beta = -0.74$, $P < 0.001$), and intentions to purchase
52 ($\beta = 0.04$, $P < 0.05$). Finally, the influence of attitude on intention to purchase travel online (β
53 $= 0.69$, $P < 0.001$), and perceived risk on intention to purchase ($\beta = -0.43$, $P < 0.001$), is found
54
55
56
57
58
59
60

1
2
3 to be strong and highly significant; while perceived risk ($\beta = 0.06$, $P < \text{non-significant}$) has no
4
5 influence on attitude, thus, H9, H10, H12 and H13 are accepted, while H11 is rejected.
6
7

8 9 10 **“Insert Figure 2 here”**

11
12
13
14 To check for the mediating indirect effects of the variables on consumer intentions to
15
16 purchase travel online through trust, perceived risk, and attitude a separate analysis was
17
18 performed based on Baron and Kenny's (1986) procedure. The results revealed that the
19
20 influences of user experience, reputation and website quality on intention to purchase travel
21
22 online are completely mediated through trust, perceived risk and attitude, and the influences
23
24 of propensity to trust, perceived ease of use, website size, and perceived usefulness are
25
26 partially mediated. Attitude and perceived risk completely mediates the impact of website
27
28 trust on consumer intention to purchase travel online.
29
30

31
32 Furthermore, Cohen (1988) effect size f^2 defined as “the degree to which the phenomenon
33
34 is present in the population” was used to further examine the substantive effect of the
35
36 research model. Cohen (1988) suggested 0.02, 0.15, and 0.35 as operational definitions of
37
38 small, medium, and large effect sizes, respectively. Thus, our model suggested that both
39
40 website trust ($f^2 = 0.71$) and intentions to purchase travel online ($f^2 = 0.58$) have a large effect
41
42 size whereas perceived risk ($f^2 = 0.24$) and attitude ($f^2 = 0.27$) has a medium effect size.
43
44

45
46 The study tests the predictive validity of the structural model following the Stone–Geisser
47
48 Q^2 . According to Roldán and Sánchez-Franco (2012), in order to examine the predictive
49
50 validity of the research model, the cross-validated construct redundancy Q^2 is necessary. A
51
52 Q^2 greater than 0 implies that the model has predictive validity. In the main PLS model, Q^2 is
53
54 0.69 for website trust, 0.51 for attitude, 0.46 for perceived risk and 0.62 for consumer
55
56 intention to purchase travel online that is positive and hence satisfies this condition.
57
58
59
60

Discussion and Conclusions

Discussion of Findings

The aim of this study was to propose and empirically tests a comprehensive model of antecedents and consequences of consumers trust toward online travel websites. Seven factors are proposed for building consumer trust towards online travel websites: consumer experience, propensity to trust, reputation, perceived size, ease of use, perceived usefulness, and website quality. Perceived risk, attitude, and intention to purchase travel online act as consequences to website trust. Findings from internet users (n = 1431) indicated that Perceived ease of use, website quality, website reputation, and perceived usefulness are key indicators for building website trust. Trust is a key performance indicator for online travel organizations which influences on perceived risk, attitude, and consumer intentions to purchase travel online.

Overall, the results provide support for the proposed model of consumer trust toward online travel websites. As expected, characteristics of both consumers (propensity to trust), online vendors (perceived reputation), and website (ease of use, perceived usefulness, and website quality) are found to be determinants of consumer trust towards online travel websites.

In terms of the antecedents of website trust, the SEM results show that propensity to trust has significant influence on website trust but consumer experience is not related to website trust; the findings highlight a positive relationship that is consistent with previous studies (e.g., Gefen, 2000; Teo & Liu, 2007; Beldad, et al., 2010). It was found that the level of consumer experience in terms of using online travel websites was not a significant predictor of trust towards online travel websites. This means that trust toward online travel websites will be almost the same between experienced and inexperienced consumers. However, on

1
2
3 average, consumers with more experience with online travel websites will tend to trust online
4
5 travel websites less than novice consumers.
6

7 The findings of this study revealed that perceived reputation is positively related to website
8 trust but perceived website size is not related to website trust. One possible explanation for
9 the lack of support for the relationship between perceived website size and website trust
10 could be that the perceived size of website does not affect consumers' trust toward website as
11 heavily as the perceived size of a physical store does. Online provider size is less easily
12 perceived on the website than a physical store size. In the traditional business, consumers can
13 easily assess an organization size themselves by its presence. But in the online environment,
14 it's hard to assess the online vendor size through its website. Therefore, customers may not
15 care much regarding the online vendor size. Furthermore, recognizing perceived reputation as
16 a driver of website trust validates Hana et al. (2015) and Teo & Liu (2007) and Hsu et al.
17 (2014) findings in online context.
18
19
20
21
22
23
24
25
26
27
28
29
30
31

32 The results also indicate that perceived ease of use and perceived usefulness are two
33 relevant antecedents in order to form a website trust. Therefore, the TAM holds true for
34 Egypt (i.e., a culture that is high in uncertainty avoidance, power distance, and masculinity
35 and low in individualism). Prior studies have indicated concern regarding the applicability of
36 the TAM in a culture that is high in uncertainty avoidance, power distance, and masculinity
37 (McCoy et al., 2007; Straub et al., 1997). However, this study results reveal useful insights
38 regarding the applicability and generalizability of the TAM Model in a culture that is high in
39 uncertainty avoidance, power distance, and masculinity. The results of this study are
40 consistent with Adams et al. (1992), which pointed out that PEU plays a critical role in the
41 early adaption stages. Perceived website quality emerged as a strong predictor of website
42 trust. Therefore, the higher the perceived quality of online travel website, the more users will
43 trust in online travel website. Therefore, the current study shows that website quality is an
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

1
2
3 important predictor of trust towards online travel website that is consistent with previous
4
5 studies (e.g. Filieri, 2015; Kim et al., 2011; Wang et al., 2015).
6

7 Results regarding consequences of website trust are consistent with the findings of Teo and
8 Liu (2007) and Jarvenpaa et al.(2000) and Amaro and Duarte (2015). The findings of this
9 study acknowledge that trustworthy relations between the consumer and online travel
10 provider have a significant and positive effect on customer attitude toward online travel
11 websites and between consumers' attitude and their intention to purchase travel online.
12 Consumers' attitude towards online travel websites is the most relevant determinant of
13 intentions to purchase travel online. The results of this study are consistent with Amaro and
14 Duarte (2015), which pointed out that consumers' attitude is the most relevant determinant of
15 consumers' intentions to purchase travel online. Finally, website trust reduces consumers'
16 perceived risk associated with purchasing travel online. Despite perceived risk has no
17 influence on consumer attitude toward online travel websites; it may hinder consumers from
18 purchasing online, since it has a negative influence on consumer intentions to purchase travel
19 online. Theory of reasoned action (TRA) is confirmed by the results of the current study,
20 which revealed that customers' trust towards online travel websites is significantly positively
21 related to their attitude toward the online travel websites, and consumers' attitude is
22 positively related with customers' intentions to purchase travel online. This result is
23 consistent with prior empirical studies (e.g., Teo & Liu, 2007; Amaro & Duarte, 2015;
24 Jarvenpaa, et al., 2000).
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

50 **Managerial Implications**

51 Trust has become a top concern for online travel websites as evidenced by prior studies
52 (Kim et al., 2011; Ayeh et al., 2013). This study was couched on the premise that prior
53 studies have largely ignored the factors leading to consumers trust towards online travel
54
55
56
57
58
59
60

1
2
3 websites as well as the consequences of consumers trust toward online travel websites,
4
5 especially in a developing country. As such, a strong empirical inquiry on analysing the
6
7 antecedents and consequences of customers trust toward online travel websites as identified
8
9 by the literature was needed. The present study's findings have revealed some important
10
11 implications for online travel providers and academic researchers as well as making a
12
13 significant contribution to the body of knowledge in a number of different ways.
14
15

16 The results of this research have relevant practical implications for marketing practitioners
17
18 and managers who design strategic plans and implement tools to improve the performance of
19
20 online travel shopping websites.
21
22

23
24 First, the knowledge of the antecedents and consequences of consumer trust and the
25
26 influence of these factors on intentions to purchase travel online are useful for managers who
27
28 should develop strategies and actions aimed at increasing the consumer trust in their websites
29
30 and, consequently, the consumers' intentions to purchase travel online. The current study has
31
32 provided empirical validation of a model that can help online travel providers to understand
33
34 the antecedents and consequences of trust toward online travel websites. Perceived ease of
35
36 use and perceived usefulness emerged as crucial success factors for building trust toward
37
38 online travel websites; consequently, attitude and intentions to purchase travel online, actions
39
40 can be taken by managers to increase perceived ease of use and perceived usefulness. Online
41
42 travel providers can utilize the advances of technology to facilitate convenience in selling
43
44 travel online. For instance, online travel providers can provide apps for mobile devices to
45
46 purchase travel.
47
48
49

50
51 Second, our study findings have important implications for international marketers who
52
53 want to target the Egyptian market. Our study reveals that PEU plays a critical role in
54
55 influencing consumer trust toward online travel websites. In other words, Egyptian
56
57
58
59
60

1
2
3 consumers are likely to be more worried about their ability to use the website than the online
4
5 travel shopping benefits when making decisions about e-commerce adaption.
6
7

8 Third, another recommendation for online travel providers to keep high levels of trust
9
10 would be to improve technical features such as service quality, information quality, and
11
12 service quality. For instance, online travel providers can provide consumers with information
13
14 system with safe payment mechanism, privacy protection mechanism, and high transmission
15
16 quality. Furthermore, online travel providers should encourage consumers to enter their own
17
18 personal information to utilize customized and personalized services to consumers. In
19
20 addition, online travel providers can increase websites reputation by publicity and
21
22 advertising.
23
24

25
26 Finally, this study revealed that consumers attitude toward online travel websites is the
27
28 most relevant determinant of consumers' intention to purchase online. Thus, online travel
29
30 providers need to pay attention to the aspects that build a favourable attitude. The current
31
32 study evidenced some of those aspects e.g. trust. Perceived risk influence consumer
33
34 intentions to purchase online, actions can be taken by online travel providers to reduce
35
36 perceived risk. For instance, strong website reputation, provide fulfilling transactions, provide
37
38 consumers with information about consumer rights, money back guarantees, and security
39
40 approval symbol.
41
42
43
44
45

46 **Theoretical Implications**

47

48 The findings of this study contribute to the literature by expanding the extant literature on
49
50 online trust by assessing the drivers and outcomes of trust toward online travel websites in an
51
52 emerging Middle East context. These results are important because they empirically test
53
54 theories predominately developed in developed countries, in the context of a vigorous
55
56 emerging Middle East marketplace, which increasingly attracts international marketers who
57
58
59
60

1
2
3 want to target the Egyptian market. Therefore, the theoretical implications of this study are
4
5 that consumer trust towards online travel websites depends on three main drivers: 1) those
6
7 related to consumers experience and proficiency and propensity to trust; 2) those related to
8
9 the reputation of the website and the perceived size of the website; 3) those related to the
10
11 perceived ease of use, perceived usefulness and website quality. Furthermore, previous
12
13 studies have often not adequately distinguished between consumer trust, attitude, and
14
15 perceived risk, and concomitantly have not understood their relationships with each other or
16
17 how they influence purchase intentions. Therefore, distinguishing between these concepts
18
19 both empirically and conceptually will provide important insights into their distinct roles in
20
21 the online context.
22
23
24
25
26

27 **Limitations and Future Research Directions**

28
29 Like any other study, ours is bound by certain limitations that also provide fertile grounds
30
31 for further research. First, this study employed a convenience sample. Although being a
32
33 strong sample in terms of diversity and size, generalisations of the results must be made with
34
35 caution. Therefore, future studies can use random sampling of general consumers. Second,
36
37 this study did not consider cross-cultural issues; any comparative study from a developed and
38
39 developing country would make a worthwhile contribution to the body of knowledge. Third,
40
41 another limitation of the current study is related to online travel purchase definition. In this
42
43 study, online travel purchase definition is a little broad; therefore, the results maybe not
44
45 suitable to all online travel products categories. Therefore, future studies should examine the
46
47 validity of the proposed model on a specific travel product or service. Fourth, the variables of
48
49 this study have been measures at a single point of time. Thus, future studies should use
50
51 longitudinal analysis in order to validate the proposed model. Finally, despite the antecedents
52
53 of consumer trust towards online travel websites explained a substantial amount of its
54
55
56
57
58
59
60

1
2
3 variance; there are some other important dimensions which have not been included in the
4
5 research model, representing opportunities for further research (e.g. consumers' satisfaction
6
7 with previous experience and perceived source credibility).
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60

For Peer Review

References

- Aaker, David A., V. Kumar, & George S. Day. (2007). "Marketing Research. 7th ed. Milton, Queensland": John Wiley & Sons Australia.
- Adams, D., Nelson, R. R. & Todd, P. A.(1992). "Perceived Usefulness, Ease of Use, and Usage of Information Technology: A Replication." *MIS Quarterly*,16(2): 227-47.
- Agag, G. & El-Masry, A. (2016a). "Understanding consumer intention to participate in online travel community and effects on consumer intention to purchase travel online and WOM: an integration of innovation diffusion theory and TAM with trust. *Computers in Human Behaviour*. Forthcoming. Doi: 10.1016/j.chb.2016.02.038
- Agag, G. & El-Masry, A. (2016b). "Understanding the determinants of hotel booking intentions and moderating role of habit." *International Journal of Hospitality Management*, 54: 52–67
- Aiken, K. D. & Boush, D. M. (2006). "Trustmarks, objective-source ratings, and implied investments in advertising: investigating online trust and the context specific nature of internet signals." *Journal of the Academy of Marketing Science*, 34(3): 308-323.
- Ajzen, I. & Fishbein, M.(1980). "Understanding attitudes and predicting social behavior. Englewood Cliffs, NJ:" Prentice-Hal.
- Ajzen, I.(2011). "Behavioral interventions: design and evaluation guided by the theory of planned behavior. In M. M. Mark, S. I. Donaldson, & B. C. Campbell (Eds.), *Social psychology for program and policy evaluation*." New York, NY: Guilford, 74-100.
- Aladwani, A. (2003). "Key internet characteristics and e-commerce issues in arab world." *Information Technology and People*, 27(1): 9-20.
- Aldhmour, F. & Shannak, R. (2009). "The effective utilization of information and communication technology and its impact on competitive advantage." *European Journal of Scientific Research*, 29(3): 302-314.
- Alsajjan, B. & Dennis, C.(2010). "Internet Banking Acceptance Model: Cross-Market Examination." *Journal of Business Research*, 63(9): 957-63.
- Amaro, S. & Duarte, P.(2015). "An integrative model of consumers' intentions to purchase travel Online." *Tourism Management*, 46 : 64-79.
- Amaro, S. & Duarte, P.(2013). "Online travel purchasing: a literature review." *Journal of Travel & Tourism Marketing*, 30(8): 755-785.
- Armstrong, J. S. & Overton, T. S.(1977). "Estimating non-response bias in mail surveys." *Journal of Marketing Research*, 14: 396-402.
- Ashraf, A. R., Thongpapanl, N. T. & Auh, S.(2014). "The Application of the Technology Acceptance Model Under Different Cultural Contexts: The Case of Online Shopping Adoption." *Journal of International Marketing*, 22(3): 68-93.

1
2
3 Aye, J. K., N. Au, and R. Law. (2013). "Do We Believe in TripAdvisor? Examining Credibility
4 Perceptions and Online Travellers' Attitude toward Using User-generated Content." *Journal of Travel*
5 *Research*, 52 (4): 437-52.

6
7 Aye, J. K., Au, N. & Law, R.(2013). "Predicting the intention to use consumer generated media for
8 travel planning." *Tourism Management*, 35: 132-143.

9
10 Aye, J. K.(2015). "Travellers' acceptance of consumer-generated media: An integrated model of
11 technology acceptance and source credibility theories." *Computers in Human Behavior*, 48: 173–180.

12
13 Bagozzi, R. & Yi, Y.(1988). "On the evaluation of structural equation models." *Journal of the*
14 *Academy of Marketing Science*, 16(1): 74-94.

15
16 Barclay, D., Higgins, C. & Thompson, R.(1995). "The partial least squares (PLS) approach to causal
17 modeling: personal computer adoption and use as an illustration." *Technology Studies*, 2(2): 285-309.

18
19 Baron, R. M. & Kenny, D. A.(1986). "The moderator-mediator variable distinction in social
20 psychological research: Conceptual, strategic, and statistical considerations." *Journal of Personality*
21 *and Social Psychology*, 51:1173–1182.

22
23 Bartlett, J., Kotrlik, J. & Higgins, C.(2010). "Organizational research: determining appropriate sample
24 size in survey research." *Information Technology, Learning, and Performance Journal*, 19(1): 43-50.

25
26 Beirman, D. (2003). "Restoring Tourism Destination in Crisis: a Strategic marketing approach. St.
27 Leonards, New ZealandL." Allen &Unwin.

28
29 Beldad, A., de Jong, M. & Steehouder, M.(2010). "How shall I trust the faceless and the intangible? A
30 literature review on the antecedents of online trust." *Computers in Human Behavior*, 26(5): 857-868.

31
32 Bhuasiri, W., Xaymoungkhoun, O., Zo , H. & Rho, J. (2012). "Critical success factors for e-learning
33 in developing countries: A comparative analysis between ICT experts and faculty." *Computers and*
34 *Education*, 58(2): 843–855.

35
36 Bianchi, C. & Andrews, L. (2012). "Risk, trust, and consumer online purchasing behaviour : a Chilean
37 perspective." *International Marketing Review*, 29(3): 253-275.

38
39 Bigne, E., Sanz, S., Ruiz, C. & Aldas, J.(2010). "Why some internet users don't buy air In U. Gretzel,
40 R. Law, & M. Fuchs (Eds.)." *Information and communication technologies in tourism*,209-221.

41
42 Buhalis, D. & Law, R.(2008). "Progress in information technology and tourism management: 20 years
43 on and 10 years after the internet e the state ofeTourism research." *Tourism Management*, 29(4): 609-
44 623.

45
46 Carvajal-Trujillo, E. & Escobar-Rodríguez, T.(2014). "Online purchasing tickets for low cost carriers
47 an application of the unified theory of acceptance and use of technology (UTAUT) model." *Tourism*
48 *Management*, 43(August): 70-88.

49
50 Casalo, L. V., Flavián, C. & Guinaliu, M.(2010). "Determinants of the intention to participate in firm-
51 hosted online travel communities and effects on consumer behavioral intentions." *Tourism*
52 *Management*,31: 898-911.

- 1
2
3 Casalo, L. V., Flavian, C. & Guinaliu, M.(2007). "The influence of satisfaction, perceived reputation
4 and trust on a consumer's commitment to a website." *Journal of Marketing Communications*, 13(1):
5 1–17.
6
- 7 Casalo, L., Flavián, C. & Guinalú, M.(2008). "The role of perceived usability, reputation,satisfaction
8 and consumer familiarity on the website loyalty formation process." *Computers in Human Behaviour*,
9 24(2): 325–345.
10
- 11 Castaneda, J. A., Munoz-Leiva, F. & Luque, T.(2007). "Web Acceptance Model (WAM): Moderating
12 effects of user Experience." *Information & Management*, 44: 384–396.
13
- 14 Chang, H. C. & Chen, S. W.(2008). "The impact of online store environment cues on purchase
15 intention: trust and perceived risk as a mediator." *Online Inf. Rev*, 32(6): 818–841.
16
- 17 Chen, C.(2006). "Identifying significant factors influencing consumer trust in an online travel site."
18 *Information Technology and Tourism*, 8: 197–214.
19
- 20 Chen, Q. & Wells, W. D.(1999). "Attitude toward the site. *Journal of Advertising Research*, 39(5):
21 27–37.
22
- 23 Chen, Y., Yan, X., Fan, W. & Michae. (2015). "The joint moderating role of trust propensity and
24 gender on consumers'online shopping behavior." *Computers in Human Behavior*, 43: 272–283.
25
- 26 Chen, Y. H. & Barnes, S.(2007). "Initial trust and online buyer behaviour." *Industrial Management
27 and Data Systems*, 107(1): 21-36.
28
- 29 Cheng, H. H. & Huang, S. W.(2013). "Exploring antecedents and consequence of online group-
30 buying intention:An extended perspective on theory of planned behavior." *International Journal of
31 Information Management*, 33: 185– 198.
32
- 33 Cheng, T. C., Lam, D. Y. & Yeung, A. C.(2006). "Adoption of internet banking: an empirical studyin
34 Hong Kong." *Decis Support System*, 42(3): 1558–1572.
35
- 36 Cheung, C. M. & Lee, M. K.(2001). "Trust in Internet shopping: Instrument development and
37 validation through classical and modern approaches." *Journal of Global Information Management*, 9:
38 23-35.
39
- 40 Chiou, W. C., Lin, C. C. & Perng, C.(2010). "A strategic framework for website evaluation based on a
41 review of the literature from 1995-2006." *Information & Management*, 47(5): 282-290.
42
- 43 Chiu, C. M., Huang, H. Y. & Hui, Y. C.(2010). "Antecedents of trust in online auctions." *Electronic
44 Commerce Research and Applications*, 9(2): 148-159.
45
- 46 Chow, S. & Holden, R.(1997). "Toward an understanding of loyalty: the moderating role of trust."
47 *Journal of Managerial Issues*, 9(3): 275–298.
48
- 49 Cohen, J.(1988). "Statistical Power Analysis for the Behavioral Sciences." Academic Press, New
50 York, NY.
51
- 52 Corbitt, B. J., Thanasankit, T. & Yi, H.(2003). "Trust and e-commerce: a study of consumer
53 perceptions." *Electronic Commerce Research and Applications*, 2(3): 203-215.
54
55
56
57
58
59
60

1
2
3 Davis, F. D.(1986). "A technology acceptance model for empirically testing new end-user information
4 systems: Theory and results. Doctoral dissertation." Sloan School of Management Massachusetts
5 Institute of Technology, Amherst, MA.
6

7 Davis, F. D.(1989). "Perceived usefulness, perceived ease of use and user acceptance of information
8 technology." *MIS Quarterly*, 13(3): 319-340.
9

10 De Leeuw, E. D. (2008). "Choosing the Method of Data Collection." In *International Handbook of*
11 *Survey Methodology*, edited by E. D. de Leeuw, J. J. Hox, and D. A. Dillman. New York: Lawrence
12 Erlbaum, 113-35.
13

14 De Ruyter, K., Wetzels, M. & Kleijnen, M.(2001). "Customer adoption of e-service: an experimental
15 study." *International Journal of Service Industry Management*, 12(2): 184-207.
16

17 DeLone, W. H. & McLean, E. R.(2003). "The DeLone and McLean model of information systems
18 success: A ten-year update." *Journal of Management Information Systems*, 19(4): 9–30.
19

20 Doney, P. M. & Cannon, J. P.(1997). "An examination of the nature of trust in buyer–seller
21 relationships." *Journal of Marketing*, 61(2): 35–51.
22

23 Eid, R., & El-Gohary, H. (2015). "Muslim Tourist Perceived Value in the Hospitality and Tourism
24 Industry." *Journal of Travel Research*, 54(6): 774–787.
25

26 Egyptian Ministry of Tourism. (2014). "Egyptian tourism statistics." Retrieved February 10, 2016,
27 from Egyptian Ministry of Tourism Web site: [http://www.tourism.gov.eg/](http://www.tourism.gov.eg/Pages/TourismIndicators.aspx)
28 [Pages/TourismIndicators.aspx](http://www.tourism.gov.eg/Pages/TourismIndicators.aspx).
29

30 Elbeltagi, I., & Agag, G. (2016). "E-retailing ethics and its impact on customersatisfaction and
31 repurchase intention: a cultural and commitment–trusttheory perspective." *Internet Research*. 26 (1):
32 288–310.
33

34 El-Ansary, O. & Roushdy, A.(2013). "Factors Affecting Egyptian Consumers' Intentions for
35 Accepting Online Shopping." *The Journal of American Academy of Business, Cambridge* , 19(1):
36 191-201.
37

38 El-Gohary, H. (2012). "Factors affecting E-Marketing adoption and implementation in tourism firms:
39 An empirical investigation of Egyptian small tourism organisations Hatem." *Tourism Management*,
40 33: 1256-1269.
41

42 Falcone, R., Singh, M. P. & Tan, Y. H.(2001). "Trust in Cyber-societies." Springer.
43

44 Filieri, R.(2015). "Why do travelers trust TripAdvisor? Antecedents of trust towards consumer-
45 generated media and its influence on recommendation adoption and word of mouth." *Tourism*
46 *Management*, 51: 174-185.
47

48 Fishbein, M. & Ajzen, I.(1975). "Belief, attitude, intention and behaviour: An introduction to theory
49 and research." Reading, MA: Addison-Wesley.
50

51 Flavian, C., Guinalfú, M. & Gurrea, R.(2006). "The role played by perceived usability,satisfaction and
52 consumer trust on website loyalty." *Information & Management*, 43(1): 1-14.
53
54
55
56
57
58
59
60

- 1
2
3 Fornell, C. & Larcker, D. F.(1981). "Evaluating structural equation models with unobservable
4 variables and measurement error." *Journal of Marketing Research*,18: 39–50.
5
6 Gardiner, S., King, C. & Grace, D. (2012). "Travel Decision Making: An Empirical Examination of
7 Generational Values, Attitudes, and Intentions Sarah." *Journal of Travel Research*, 52(3): 310–324.
8
9 Gefen, D.(2000). "E-commerce: The roles of familiarity and trust." *Omega*, 28: 725-737.
10
11 Gefen, D., Karahanna, E. & Straub, D. W.(2003). "Trust and TAM in online shopping: an integrated
12 model." *MIS Quarterly*, 27(1): 51-90.
13
14 Gefen, D. & Straub, D. W.(2003). "Managing user trust in B2C e-services." *E-Service Journal*, 2(2):
15 7-24.
16
17 Graziano, W. G. & Tobin, R. M.(2002). "Agreeableness: Dimension of personality or social
18 desirability artifact?." *Journal of Personality*, 70(5): 695–728.
19
20 Gregori, N., R. Daniele, and L. Altinay. (2014). "Affiliate Marketing in Tourism: Determinants of
21 Consumer Trust." *Journal of Travel Research*, 53 (2): 196-210.
22
23 Griffin, A. & Hauser, J. R.(1993). "The voice of the customer." *Marketing Science*, 12(1): 1–27.
24
25 Hair, J. F., Ringle, C. M., Hult, G. T. & Sars.(2013). "A primer on partial least squares structural
26 equation modeling (PLS-SEM)." Thousand Oaks, CA: SAGE Publications.
27
28 Hair, J. F., Black, W. C., Babin, H. J. & Anderson, R. E.(2010). "Multivariate data analysis 7th ed."
29 New Jersey: Prentice Hall.
30
31 Hair, J. F., Ringle, C. M. & Sarstedt, M.(2011). "PLS-SEM: indeed a silver bullet." *Journal of*
32 *Marketing Theory and Practice*, 19(2): 139-151.
33
34 Ham, S., Kim, W. G. & Forsythe, H. W.(2008). "Restaurant employees' technology use intention:
35 Validating technology acceptance model with external factors." *Journal of Hospitality & Leisure*
36 *Marketing*, 17(1/2): 78–98.
37
38 Han, T. H., Nguyenb, B. & Lee, T. J.(2015). "Consumer-based chain restaurant brand equity, brand
39 reputation, and brand trust." *International Journal of Hospitality Management*, 50: 84–93.
40
41 Henseler, J., Ringle, C. M. & Sarstedt, M.(2012). "Using partial least squares path modeling in
42 international advertising research: basic concepts and recent issues." In S. Okazaki (Ed.), *Handbook*
43 *of research in international advertising*, 252-276.
44
45 Henseler, J., Ringle, C. M. & Sinkovics, R. R.(2009). "The use of partial least squares path modeling
46 in international marketing." *Advances in International Marketing*, 20: 277-319.
47
48 Herbig, P., Milewicz, J. & Golden, J.(1994). "A model of reputation building and destruction."
49 *Journal of Business Research*, 31: 23–31.
50
51 Heung, V. C. S.(2003). "Internet usage by international travellers: reasons and barriers." *International*
52 *Journal of Contemporary Hospitality Management*, 15(7): 370-378.
53
54 Ho, C. & Lee, Y. L.(2007). "The development of an e-travel service quality scale." *Tourism*
55 *Management*, 28(6): 1434-1449.
56
57
58
59
60

- 1
2
3 Ho, L. A., Kuo, T. H. & Lin, B.(2010). "Influence of online learning skills in cyberspace." *Internet*
4 *Research*, 20(1): 55–71.
- 5
6 Hsu, M. H., Chang, C. M., Chu, K. K. & Lee, Y. J.(2014). "Determinants of repurchase intention in
7 online group-buying:The perspectives of DeLone & McLean IS success model and trust." *Computers*
8 *in Human Behavior*, 36: 234–245.
- 9
10 Hsu Meng-Hsiang, Chuang Li-Wen & Hsu Cheng-Se. (2014). "Understanding online shopping
11 intention: the roles of four types of trust and their antecedents." *Internet Research*, 24(3): 332 - 352.
- 12
13 Hsu, M. H., Chang, C. M. & Chuang, L. W.(2015). "Understanding the determinants of online repeat
14 purchase intentionand moderating role of habit: The case of online group-buying inTaiwan."
15 *International Journal of Information Management*, 35: 45–56.
- 16
17 Humphrey, J. & Schmitz, H.(1998). "Trust and inter-firm relations in developing and transition
18 economies." *The Journal of Development Studies*, 34(4): 32-61.
- 19
20 Ip, C., Law, R. & Lee, H. A.(2011). "A Review of Website Evaluation Studies in the Tourism and
21 Hospitality Fields from 1996 to 2009." *International Journal of Tourism Research*, 13(3): 234-265.
- 22
23 Jai, T.M, Burns,L.D, King,N.J. (2013). "The effect of behavioural tracking practices on consumers'
24 shopping evaluations and repurchase intention toward trusted online retailers." *Computers in Human*
25 *Behaviour* 29: 901–909.
- 26
27 Jarvenpaa, S. L., Tractinsky, N. & Vitale, M.(2000). "Consumer trust in an internet store."
28 *Information Technology and Management*, 1(1/2): 45–71.
- 29
30 Jarvenpaa, S. L., Tractinsky, N. & Vitale, M.(2000). "Consumer trust in an internet store."
31 *Information Technology and Management*, 1(1/2): 45-72.
- 32
33 Jarvenpaa, S. & Todd, P. A.(1997). "Consumer Reactions to Electronic Shopping on the World Wide
34 Web." *International Journal of Electronic Commerce*, 1(winter): 59-88.
- 35
36 Jensen, J. M.(2012). "Shopping orientation and online travel shopping: the role of travel experience."
37 *International Journal of Tourism Research*, 14(1): 56-70.
- 38
39 Joo, J. & Sang, Y.(2013). "Exploring Koreans' smartphone usage: An integrated model of the
40 technology acceptance model and uses and gratifications theory." *Computers in Human Behavior*,
41 29(6): 2512–2518.
- 42
43 Josang, A., Ismail, R. & Boyd, C.(2007). "A survey of trust and reputation systems for online service
44 provision." *Decision Support Systems*, 43: 618–644.
- 45
46 Kamarulzaman, Y.(2007). "Adoption of travel e-shopping in the UK." *International Journal of Retail*
47 *& Distribution Management*, 35(9): 703-719.
- 48
49 Kim, M. J., Chung, N. & Lee, C. K.(2011). "The effect of perceived trust on electronic shopping
50 online for tourism products and services in South Korea." *Tourism Management*, 32(2): 256-265.
- 51
52 Kim, Xu, Y. & Gupta, S.(2012). "Which is more important in Internet shopping, perceived price or
53 trust?." *Electronic Commerce Research and Applications*, 11(3): 241-252.
- 54
55
56
57
58
59
60

- 1
2
3 Kim, D. J., Ferrin, D. L. & Rao, H. R.(2008). "A trust-based consumer decision-making model in
4 electronic commerce: the role of trust, perceived risk, and their antecedents." *Decision Support*
5 *Systems*, 44(2): 544-64.
6
- 7 Kim, D. J., Song, Y. I., Braynov, S. B. & Rao, H. R.(2005). "A multidimensional trust formation
8 model in B-to-C e-commerce: a conceptual framework and content analyses of academia/practitioner
9 perspectives." *Decision Support Systems*, 40(2): 143-165.
10
- 11 Kim, M. J., Lee, C. K., Chung, N. & Kim, W.G.(2014). "Factors Affecting Online Tourism Group
12 Buying and the Moderating Role of Loyalty." *Journal of Travel Research*, 53(3): 380–394.
13
- 14 Kim, H. B., Kim, T. & Shin, S. W.(2009). "Modeling roles of subjective norms and eTrust in
15 customers' acceptance of airline B2C e - commerce websites." *Tourism Management*, 30: 266-277.
16
- 17 Kim, H. W., Xu, Y. & Koh, J.(2004). "A comparison of online trust building factors between potential
18 customers and repeat customers." *Journal of the Association for Information Systems*, 5(10): 392–
19 420.
20
- 21 Kim, L. H., Qu, H. & Kim, D. J.(2009). "A study of perceived risk and risk reduction of purchasing
22 air-tickets online." *Journal of Travel & Tourism Marketing*, 26(3): 203-224.
23
- 24 Kim, M. & Ahn, J.(2006). "Comparison of trust sources of an online market-maker in the e-
25 marketplace: buyer's and seller's perspectives." *Journal of Computer Information Systems*, 47(1): 84-
26 94.
27
- 28 Kim, M. J., Chung, N. & Lee, C. K.(2011). "The effect of perceived trust on electronic com-merce:
29 shopping online for tourism products and services in South Korea." *Tourism Management*, 32(2):
30 256–265.
31
- 32 Kim, J., Fiore, A. & Lee, H.(2007). "Influence of online store perception, shopping enjoyment, and
33 shopping involvement on consumer patronage behaviour towards an online retailer." *Journal of*
34 *Retailing and Consumer Services*, 14: 95-107.
35
- 36 Koufaris, M. & Hampton-Sosa, W.(2004). "The development of initial trust in an online company by
37 new customers." *Information & Management*, 41: 377–397.
38
- 39 Ku, E. C.(2012). "Beyond price: how does trust encourage online group's buying intention." *Internet*
40 *Research*, 22(5): 569-590.
41
- 42 Law, R., Leung, R. & Buhalis, D.(2009). "Information technology applications in hospitality and
43 tourism: a review of publications from 2005 to 2007." *Journal of Travel & Tourism Marketing*,
44 26(5/6): 599-623.
45
- 46 Law, R. & Wong, J.(2003). "Successful factors for a travel website: perceptions of online purchasers
47 in Hong Kong." *Journal of Hospitality & Tourism Research*, 27(1): 118-124.
48
- 49 Lee, J. & Morrison, A. M.(2010). "A comparative study of web site performance." *Journal of*
50 *Hospitality and Tourism Technology*, 1(1): 50-67.
51
- 52 Lee, M. K. & Turban, E.(2006). "A trust model for consumer internet shopping." *International Journal*
53 *of Electronic Commerce*, 6(1): 75-91.
54
55
56
57
58
59
60

- 1
2
3 Liang, H., Saraf, N., Hu, Q. & Xue, Y.(2007). "Assimilation of enterprise systems: Theeffect of
4 institutional pressures and the mediating role of top management." *MISQuarterly*, 31(1): 59–87.
5
6 Liu, J. N. & Zhang, E. Y.(2014). "An investigation of factors affecting customer selection of online
7 hotelbooking channels." *International Journal of Hospitality Management*, 39: 71–83.
8
9 Llach, J., Mariomon, F. & Alonso-Almeida, M.(2013). "Determinants of online booking loyalties for
10 the purchasing of airline tickets." *Tourism Management*, 35(April): 23-31.
11
12 Macintosh, G. & Lockshin, L. S.(1997). "Retail relationships and store loyalty: a multi-level
13 perspective." *International Journal of Research in Marketing*, 14(5): 487–497.
14
15 Magnusson,P. Stanford A. Westjohn, Alexey V. Semenov, Arilova A. Randrianasolo, and Srdan
16 Zdravkovic. (2013). "The Role of Cultural Intelligence in Marketing Adaptation and Export
17 Performance." *journal o f International Marketing*, 21(4): 44-61.
18
19 Mayer, R. C., Davis, J. H. & Schoorman, F. D.(1995). "An integrative model of organization trust."
20 *Academy of Management Review*, 20(3): 709–734.
21
22 McCoy, S. D., Galletta & King, W. R.(2007). "Applying TAM Across Cultures: The Need for
23 Caution." *European Journal o f Information Systems*, 16(1): 81-90.
24
25 Mcknight, D. H. & Chervany, N. L.(2001). "What trust means in e-commerce customer relationships:
26 an interdisciplinary conceptual typology." *International Journal of Electronic Commerce*, 6(2): 35–59.
27
28 Molla, A. and Licker, P. (2005). "Ecommerce Adoption in Developing Countries: A Model and
29 Instrument." *Information and Management* 42, : 877-899.
30
31 Moital, M., Vaughan, R. & Edwards, J.(2009). "Using involvement for segmenting the adoption of e-
32 commerce in travel." *The Service Industries Journal*, 29(5): 723-739.
33
34 Moore, G. C. & Benbasat, I.(1991). "Development of an instrument to measure the perceptions of
35 adopting an Information Technology innovation." *Information Systems Research*, 3(2): 192–222.
36
37 Morakabati, H. (2007). "Tourism, travel risk and travel risk perceptions: a study of travel risk
38 perceptions and the effects of incidents on tourism (doctoral dissertation)." Bournemouth University,
39 Dorset, UK.
40
41 Morosan, C.(2012). "Theoretical and empirical considerations of guests' perceptions of biometric
42 systems in hotels: Extending the technology acceptance model." *Journal of Hospitality & Tourism*
43 *Research*, 36(1): 52–84.
44
45 Moyano, F., Fernandez-Gago, C. & Lopez, J.(2012). "A conceptual framework for trust models", in
46 Fischer-Hübner, S., Katsikas, S., Quirchmayr, G. (Eds.), *Trust, Privacy and Security in Digital*
47 *Business 2012, LNCS 7449.* Springer Berlin Heidelberg,9.
48
49 Mukherjee, A. & Nath, P.(2007). "Role of electronic trust in online retailing: A re-examination of the
50 commitment-trust Theory." *European Journal of Marketing*, 41(9/10): 1173-1202.
51
52 Nunnally, J. & Bernstein, I. H.(1994). "Psychometric theory (3rd ed.)." London: McGraw Hill.
53
54 Palvia, P.(2009). "The role of trust in e-commerce relational exchange: a unified model." *Information*
55 *and Management*, 46(4): 213-220.
56
57
58
59
60

- 1
2
3 Park, C.(2010). "A literature review on online consumer behavior in Korea." *Journal of Consumer*
4 *Studies*, 21(2): 289–320.
- 5
6 Pavlou, P. A. & Fygenson, M.(2006). "Understanding and predicting electronic commerce adoption:
7 an extension of the theory of planned behavior." *MIS Quarterly*, 30(1): 115-143.
- 8
9 Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y. & Podsakoff, N. P.(2003). "Com-mon method biases
10 in behavioral research: A critical review of the literatureand recommended remedies." *Journal of*
11 *applied psychology*, 88(5): 879–903.
- 12
13 Ponte, E. B., Carvajal-Trujill, E. & Escobar-Rodr, T.(2015). "Influence of trust and perceived value
14 on the intention to purchase travel online: Integrating the effects of assurance on trust antecedents."
15 *Tourism Management*, 47, 286-302.
- 16
17 Ren, Z. & Hassan, T. M.(2008). "Trust in e-commerce", in Anumba, C.J., Ruikar, K. (Eds.), *E-*
18 *Business in Construction*. Wiley-Blackwell, Oxford, UK, 195-210.
- 19
20 Roldán, J. L. & Sánchez-Franco, M. J.(2012). "Variance-based structural
21 equationmodelling:Guidelines for using Partial Least Squares in information systems research.(Eds.),
22 *Research methodologies, innovations and philosophies in software systems enginee.*" Hershy,PA: IGI
23 *Global* , 163-221.
- 24
25 Salam, A. F., Iyer, L., Palvia, P. & Singh, R.(2005). "Trust in e-commerce." *Communications of the*
26 *ACM*, 48(2): 73–77.
- 27
28 San Martín, H. & Herrero, A.(2012). "Influence of the user's psychological factor son the online
29 purchase intention in rural tourism: integrating innovativeness to the UTAUT framework." *Tourism*
30 *Management*, 33(2): 341-350.
- 31
32 Sanz-Blas, S., Ruiz-Mafe, C. & Perez, P.(2014). "Key drivers of services website loyalty." *The*
33 *Service Industries Journal*, 34(5): 455-475.
- 34
35 Shim, S., Eastlick, M. A., Lotz, S. L. & Warringt, P.(2001). "An online prepurchase intentions model:
36 the role of intention to search." *Journal of Retailing*, 77(3): 397-416.
- 37
38 Smeltzer, L.(1997). "The meaning and origin of trust in buyer–seller relationships." *International*
39 *Journal of Purchasing and Materials Management*, 33(1): 40–48.
- 40
41 Smith, D., Menon, S. & Sivakumar, K.(2005). "Online peer and editorial recommendations,
42 recommendations trust and choice in virtual markets." *Journal of Interactive Marketing*, 19(3): 15-37.
- 43
44 Statista.(2015). "[http://www.statista.com/statistics/247321/forecast-of-worldwide-online-travel-sales-](http://www.statista.com/statistics/247321/forecast-of-worldwide-online-travel-sales-volume)
45 [volume.](http://www.statista.com/statistics/247321/forecast-of-worldwide-online-travel-sales-volume)"
- 46
47 Straub, D., Keil, M. & Brenner, W.(1997). "Testing theTechnology Acceptance Model Across
48 Cultures: A Three country study." *Information & Management*, 33(1): 1-11.
- 49
50 Teo, T. S. & Pian, Y.(2003). "A model for web adoption." *Information and Management*, 41(4): 457–
51 68.
- 52
53 Teo, T. S. & Liu, J.(2007). "Consumer trust in e-commerce in the United States, Singapore and
54 China." *Omega The international journal of management science*, 35: 22–38.
- 55
56
57
58
59
60

- 1
2
3 Teo, T. S., Srivastava, S. C. & Jiang, L.(2009). "Trust and electronic governmentsuccess: An
4 empirical study." *Journal of Management Information Systems*, 25(3): 99–132.
5
6 Toms, E. G. & Taves, A. R.(2004). "Measuring user perceptions of Website reputation." *Information
7 Processing and Management*, 40: 291–317.
8
9 Tung, F. C., Chang, S. C. & Chou, C. M.(2008). "An extension of trust and TAM model with IDT in
10 the adoption of the electronic logistics information system in HIS in the medical industry."
11 *international journal of medical informatics*,77: 324–335.
12
13 US Census Bureau. (2003). "News release, US Department of Commerce." Washington DC,
14 August(22).
15
16 Vermeulen, I. E. & Seegers, D.(2009). "Tried and tested: the impact of online hotel reviews on
17 consumer consideration." *Tourism Management*, 30(1): 123–127.
18
19 Wang, Y. & Lin, K. J.(2008). "Reputation-oriented trustworthy computing in e-commerce
20 environments." *IEEE Internet Computing*, 12(4): 55-59.
21
22 Wang,L. Lawa, R. Guilleta, P.D. Hunga, K. Fong.D.K.(2015). "Impact of hotel website quality on
23 online booking intentions: eTrustas a mediator." *International Journal of Hospitality Management*, 47:
24 108–115.
25
26 Westland, C. J.(2010). "Lower bounds on sample size in structural equation modeling." *Electronic
27 Commerce Research and Applications*, 9(6): 476-487.
28
29 Workman, M.(2014). "New media and the changing face of information technology use: The
30 importance of task pursuit, social influence, and experience." *Computers in Human Behavior*, 31:111–
31 117.
32
33 Yaobin, L. & Tao, Z.(2007). "A research of consumers' initial trust in online stores in China." *Journal
34 of Research and Practice in Information Technology*, 39(3): 167-180.
35
36 Yoo, K. H. & Gretzel, U.(2009). "Comparison of deceptive and truthful travel reviews.InW. H€opken,
37 U. Gretzel, & R. Law (Eds.), *Information and communication technologies in tourism.*" Vienna,
38 Austria: Springer-Verlag, 37-48.
39
40 Yoo, B. & Donthu, N.(2001). "Developing a scale to measure the perceived quality of an internet
41 shopping site (SITEQUAL)." *Quarterly Journal of Electronic Commerce*, 2(1): 31-47.
42
43 Yoon, S. J.(2002). "The antecedents and consequences of trust in online-purchase decisions." *Journal
44 of Interactive Marketing*, 16(2): 47-63.
45
46 Zhang, L., Wu,L.L.& Mattila,A.S.(2016). "Online Reviews: The Role of Information Load and
47 Peripheral Factors." *Journal of Travel Research*, 55(3): 299– 310.
48
49 Zhou, Z.(2004). "E-commerce and information technology in hospitality and tourism." Canada:
50 Delmar Learning.
51
52 Zhu, D. H. & Chan, Y. P.(2014). "Investigating consumer attitude and intention toward free trials of
53 technology-based services." *Computers in Human Behavior*, 30(2): 328–334.
54
55
56
57
58
59
60

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

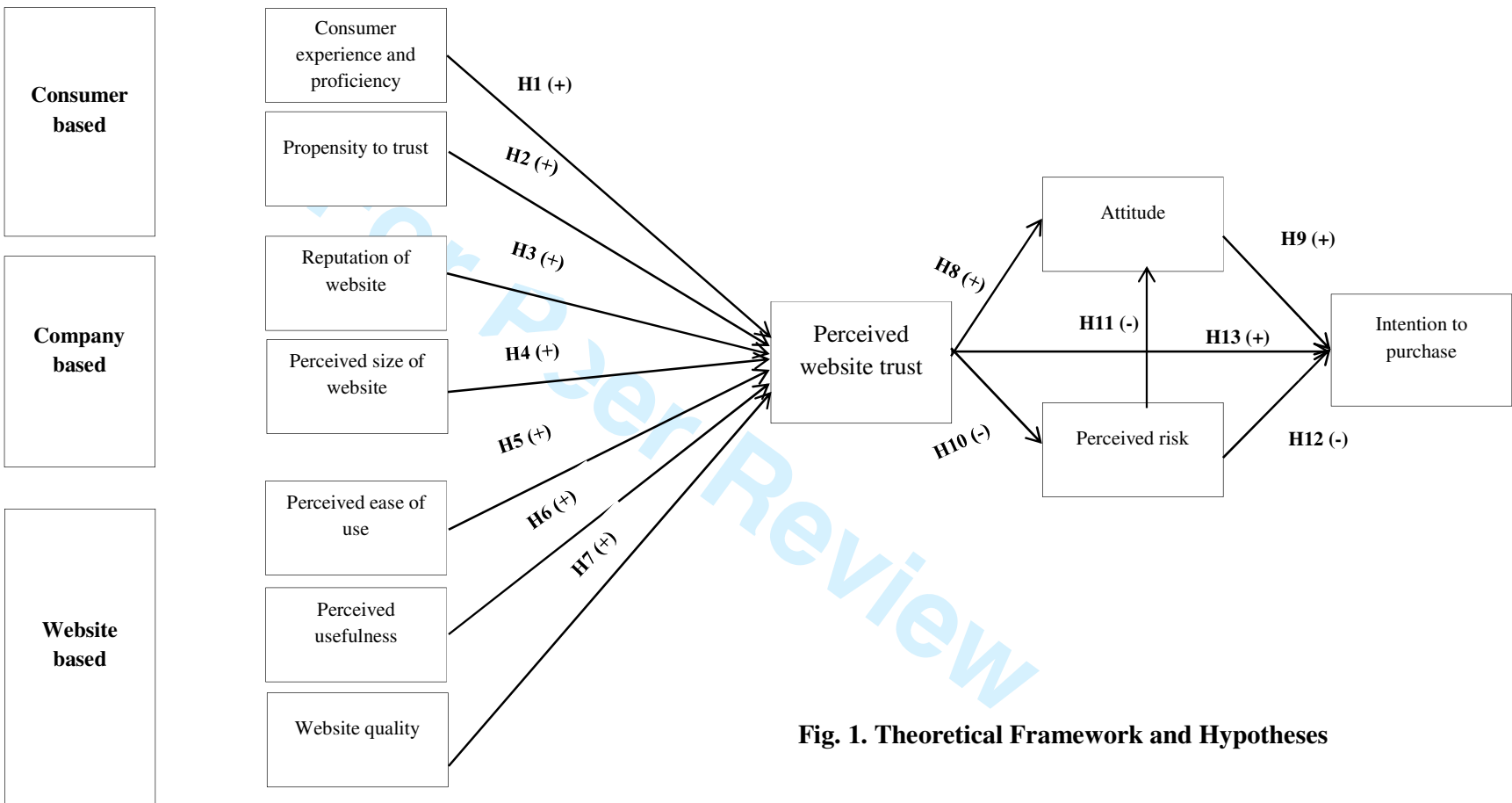


Fig. 1. Theoretical Framework and Hypotheses

Table 1: The Sampling Procedure

| Sampling step | Responses |
|--|-----------|
| E-mail sent for screening of potential respondents | 3800 |
| Replied | 3250 |
| Qualified | 1860 |
| E-mail sent for actual survey invitation | 1860 |
| Replied | 1463 |
| Qualified | 1431 |

For Peer Review

Table 2: The Sampling profile for online shoppers (N=3250)

| Variable | Category | N | % of response |
|--|---------------------|----------|----------------------|
| Age | 18-29 | 1170 | 36 |
| | 30-39 | 868 | 27 |
| | 40-49 | 646 | 20 |
| | 50-59 | 410 | 13 |
| | Over60 | 156 | 4 |
| Gender | Male | 1654 | 51 |
| | Female | 1596 | 49 |
| Education | Bachelor degree | 865 | 27 |
| | Diploma | 919 | 29 |
| | Master or doctorate | 1026 | 31 |
| | Other | 440 | 13 |
| Frequency of online travel shopping within a year | <3 times | 679 | 21 |
| | 3-6 times | 984 | 30 |
| | 6-9 times | 816 | 25 |
| | > 9 times | 774 | 24 |

Table 3: The Sampling profile for online travel products (N=1431)

| Variable | Category | N | % of online travel shoppers response | % of online shoppers response |
|---|---------------------|-----|--------------------------------------|-------------------------------|
| Age | 18-29 | 580 | 0.41 | 0.18 |
| | 30-39 | 350 | 0.24 | 0.11 |
| | 40-49 | 212 | 0.15 | 0.07 |
| | 50-59 | 160 | 0.11 | 0.05 |
| | Over60 | 129 | 0.09 | 0.04 |
| Gender | Male | 920 | 0.64 | 0.28 |
| | Female | 511 | 0.36 | 0.16 |
| Education | Bachelor degree | 480 | 0.34 | 0.15 |
| | Diploma | 96 | 0.07 | 0.03 |
| | Master or doctorate | 855 | 0.60 | 0.26 |
| | Other | 0 | - | - |
| Frequency of online travel shopping within a year | <3 times | 210 | 0.15 | 0.06 |
| | 3-6 times | 887 | 0.62 | 0.27 |
| | 6-9 times | 215 | 0.15 | 0.07 |
| | > 9 times | 119 | 0.08 | 0.04 |

Table 4: Measurement statistics of construct scales

| Construct indicators | Indicator loadings | Composite reliability | Cronbach's alpha | Average variance extracted (AVE) |
|-------------------------------------|--------------------|-----------------------|------------------|----------------------------------|
| Intention to purchase travel online | | 0.92 | 0.89 | 0.64 |
| INT1 | 0.94 | | | |
| INT2 | 0.97 | | | |
| INT3 | 0.92 | | | |
| INT4 | 0.89 | | | |
| Attitude | | 0.87 | 0.83 | 0.68 |
| ATT1 | 0.96 | | | |
| ATT2 | 0.89 | | | |
| ATT3 | 0.93 | | | |
| Perceived risk | | 0.94 | 0.91 | 0.59 |
| RSK1 | 0.91 | | | |
| RSK2 | 0.95 | | | |
| RSK3 | 0.88 | | | |
| Website trust | | 0.89 | 0.83 | 0.63 |
| TRU1 | 0.89 | | | |
| TRU2 | 0.84 | | | |
| TRU3 | 0.93 | | | |
| TRU4 | 0.91 | | | |
| Consumer experience | | 0.96 | 0.94 | 0.51 |
| EXP1 | 0.94 | | | |
| EXP2 | 0.97 | | | |
| EXP3 | 0.93 | | | |
| Propensity to trust | | 0.91 | 0.85 | 0.64 |
| PRT1 | 0.90 | | | |
| PRT2 | 0.94 | | | |
| PRT3 | 0.87 | | | |
| Reputation | | 0.93 | 0.91 | 0.67 |
| REP1 | 0.84 | | | |
| REP2 | 0.87 | | | |
| REP3 | 0.91 | | | |
| Perceived size | | 0.97 | 0.94 | 0.73 |
| SIZ1 | 0.94 | | | |
| SIZ2 | 0.97 | | | |
| SIZ3 | 0.89 | | | |
| Perceived ease of use | | 0.93 | 0.91 | 0.62 |
| PEU1 | 0.93 | | | |
| PEU2 | 0.91 | | | |
| PEU3 | 0.96 | | | |
| Perceived usefulness | | 0.87 | 0.83 | 0.58 |
| PUS1 | 0.94 | | | |
| PUS2 | 0.92 | | | |
| PUS3 | 0.97 | | | |
| Website quality | | 0.89 | 0.82 | 0.67 |
| Qul1 | 0.87 | | | |
| Qul2 | 0.89 | | | |
| Qul3 | 0.93 | | | |
| Qul4 | 0.91 | | | |

Table 5: Discriminant Validity of the Constructs

| Construct | Correlations and square roots of AVEs. | | | | | | | | | | |
|-----------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | INT | ATT | RSK | TRU | EXP | PRT | REP | SIZ | PEU | PUS | QUL |
| INT | (0.818) | | | | | | | | | | |
| ATT | 0.562 | (0.871) | | | | | | | | | |
| RSK | 0.410 | 0.792 | (0.794) | | | | | | | | |
| TRU | 0.392 | 0.621 | 0.721 | (0.796) | | | | | | | |
| EXP | 0.405 | 0.700 | 0.602 | 0.719 | (0.874) | | | | | | |
| PRT | 0.491 | 0.740 | 0.761 | 0.758 | 0.802 | (0.791) | | | | | |
| REP | 0.392 | 0.593 | 0.580 | 0.582 | 0.727 | 0.694 | (0.893) | | | | |
| SIZ | 0.529 | 0.568 | 0.647 | 0.497 | 0.604 | 0.506 | 0.648 | (0.748) | | | |
| PEU | 0.360 | 0.703 | 0.629 | 0.594 | 0.527 | 0.475 | 0.470 | 0.594 | (0.709) | | |
| PUS | 0.293 | 0.497 | 0.491 | 0.603 | 0.490 | 0.751 | 0.718 | 0.430 | 0.641 | (0.837) | |
| QUL | 0.419 | 0.620 | 0.473 | 0.594 | 0.603 | 0.619 | 0.493 | 0.643 | 0.590 | 0.783 | (0.680) |

- **Bolded items are factor loadings.**

Notes:

- INT = Intentions to purchase; ATT = Attitude; RSK = Perceived risk; TRU= Trust; EXP = User experience; PRT= Propensity to trust; REP = Reputation; SIZ =

Perceived size; PEU= Perceived ease of use; PUS = Perceived usefulness; QUL = Website quality

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

Table 6: Loadings and cross-loadings of measurement items

| ITEMS | INT | ATT | RSK | TRU | EXP | PRT | REP | SIZ | PEU | PUS | QUL | p value |
|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|-------|-------|---------|
| INT1 | 0.892 | 0.314 | 0.286 | 0.252 | 0.109 | 0.347 | 0.188 | 0.399 | 0.167 | 0.042 | 0.208 | <0.001 |
| INT2 | 0.973 | 0.121 | 0.225 | 0.353 | 0.131 | 0.134 | 0.519 | 0.211 | 0.261 | 0.391 | 0.142 | <0.001 |
| INT3 | 0.860 | 0.233 | 0.033 | 0.103 | 0.231 | 0.314 | 0.304 | 0.262 | 0.514 | 0.221 | 0.528 | <0.001 |
| INT4 | 0.881 | 0.229 | 0.225 | 0.441 | 0.347 | 0.351 | 0.511 | 0.038 | 0.387 | 0.251 | 0.199 | <0.001 |
| ATT1 | 0.209 | 0.836 | 0.229 | 0.422 | 0.259 | 0.246 | 0.146 | 0.211 | 0.223 | 0.617 | 0.315 | <0.001 |
| ATT2 | 0.217 | 0.919 | 0.282 | 0.118 | 0.438 | 0.219 | 0.347 | 0.281 | 0.389 | 0.528 | 0.241 | <0.001 |
| ATT3 | 0.104 | 0.874 | 0.415 | 0.336 | 0.236 | 0.338 | 0.411 | 0.389 | 0.418 | 0.515 | 0.321 | <0.001 |
| RSK1 | 0.211 | 0.201 | 0.934 | 0.245 | 0.319 | 0.393 | 0.548 | 0.148 | 0.558 | 0.305 | 0.646 | <0.001 |
| RSK2 | -0.109 | 0.414 | 0.835 | 0.201 | 0.519 | 0.518 | 0.244 | 0.269 | 0.059 | 0.544 | 0.148 | <0.001 |
| RSK3 | -0.223 | 0.014 | 0.843 | 0.392 | 0.447 | 0.542 | 0.487 | 0.118 | 0.422 | 0.221 | 0.315 | <0.001 |
| TRU1 | 0.092 | 0.192 | 0.136 | 0.951 | 0.315 | 0.237 | 0.351 | 0.114 | 0.478 | 0.223 | 0.262 | <0.001 |
| TRU2 | 0.028 | 0.104 | 0.038 | 0.844 | 0.231 | 0.321 | 0.418 | 0.317 | 0.353 | 0.452 | 0.193 | <0.001 |
| TRU3 | -0.549 | 0.234 | 0.432 | 0.974 | 0.219 | 0.218 | 0.143 | 0.114 | 0.132 | 0.627 | 0.111 | <0.001 |
| TRU4 | 0.338 | 0.149 | 0.331 | 0.812 | 0.128 | 0.224 | 0.143 | 0.241 | 0.234 | 0.315 | 0.411 | <0.001 |
| EXP1 | 0.136 | 0.312 | 0.221 | 0.214 | 0.816 | 0.118 | 0.349 | 0.313 | 0.341 | 0.147 | 0.293 | <0.001 |
| EXP2 | 0.383 | 0.331 | 0.421 | 0.639 | 0.835 | 0.456 | 0.292 | 0.553 | 0.171 | 0.338 | 0.451 | <0.001 |
| EXP3 | 0.294 | 0.341 | 0.234 | 0.321 | 0.816 | 0.254 | 0.118 | 0.214 | 0.451 | 0.493 | 0.607 | <0.001 |
| PRT1 | 0.224 | 0.384 | 0.485 | 0.352 | 0.321 | 0.912 | 0.519 | 0.244 | 0.317 | 0.324 | 0.251 | <0.001 |
| PRT2 | 0.206 | -0.314 | 0.126 | 0.312 | 0.016 | 0.957 | 0.608 | 0.212 | 0.517 | 0.324 | 0.218 | <0.001 |
| PRT3 | -0.311 | 0.121 | 0.215 | 0.353 | 0.419 | 0.934 | 0.359 | 0.451 | 0.232 | 0.231 | 0.242 | <0.001 |
| REP1 | 0.204 | -0.123 | 0.233 | -0.153 | 0.221 | 0.214 | 0.874 | 0.362 | 0.434 | 0.431 | 0.528 | <0.001 |
| REP2 | 0.221 | 0.239 | 0.215 | 0.241 | 0.317 | 0.081 | 0.851 | 0.048 | 0.437 | 0.231 | 0.249 | <0.001 |
| REP3 | -0.029 | 0.226 | 0.229 | 0.412 | 0.219 | 0.254 | 0.816 | 0.511 | 0.323 | 0.457 | 0.315 | <0.001 |
| SIZ1 | 0.217 | 0.139 | 0.432 | 0.338 | 0.108 | 0.349 | 0.147 | 0.861 | 0.389 | 0.548 | 0.221 | <0.001 |
| SIZ2 | 0.304 | 0.224 | 0.255 | 0.336 | 0.236 | 0.118 | 0.011 | 0.889 | 0.218 | 0.543 | 0.231 | <0.001 |

| | | | | | | | | | | | | |
|-------------|--------|--------|--------|--------|-------|-------|-------|--------------|--------------|--------------|--------------|--------|
| SIZ3 | 0.124 | 0.221 | -0.244 | 0.214 | 0.319 | 0.493 | 0.348 | 0.878 | 0.458 | 0.105 | 0.446 | <0.001 |
| PEU1 | -0.149 | -0.234 | 0.325 | -0.101 | 0.229 | 0.358 | 0.244 | 0.409 | 0.829 | 0.324 | 0.138 | <0.001 |
| PEU2 | -0.243 | 0.024 | 0.143 | 0.442 | 0.267 | 0.446 | 0.217 | 0.078 | 0.922 | 0.221 | 0.471 | <0.001 |
| PEU3 | 0.092 | -0.232 | 0.546 | 0.331 | 0.125 | 0.237 | 0.291 | 0.284 | 0.878 | 0.228 | 0.025 | <0.001 |
| PUS1 | 0.038 | 0.224 | 0.248 | 0.304 | 0.201 | 0.521 | 0.148 | 0.127 | 0.153 | 0.852 | 0.523 | <0.001 |
| PUS2 | 0.329 | -0.284 | 0.402 | 0.314 | 0.239 | 0.348 | 0.133 | 0.154 | 0.392 | 0.917 | 0.157 | <0.001 |
| PUS3 | 0.318 | 0.129 | 0.341 | 0.123 | 0.148 | 0.234 | 0.273 | 0.431 | 0.294 | 0.915 | 0.421 | <0.001 |
| QUL1 | 0.416 | 0.252 | -0.251 | 0.214 | 0.416 | 0.218 | 0.339 | 0.513 | 0.141 | 0.127 | 0.893 | <0.001 |
| QUL2 | 0.183 | 0.321 | 0.361 | 0.139 | 0.135 | 0.246 | 0.232 | 0.443 | 0.501 | 0.328 | 0.821 | <0.001 |
| QUL3 | 0.224 | 0.321 | 0.284 | 0.321 | 0.416 | 0.384 | 0.118 | 0.214 | 0.518 | 0.603 | 0.917 | <0.001 |
| QUL4 | 0.234 | 0.183 | 0.405 | 0.272 | 0.621 | 0.112 | 0.339 | 0.254 | 0.137 | 0.174 | 0.819 | <0.001 |

Notes:

- **INT** = Intentions to purchase; **ATT** = Attitude; **RSK** = Perceived risk; **TRU**= Trust; **EXP** = User experience; **PRT**= Propensity to trust; **REP** = Reputation; **SIZ** = Perceived size; **PEU**= Perceived ease of use; **PUS** = Perceived usefulness; **QUL** = Website quality

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49

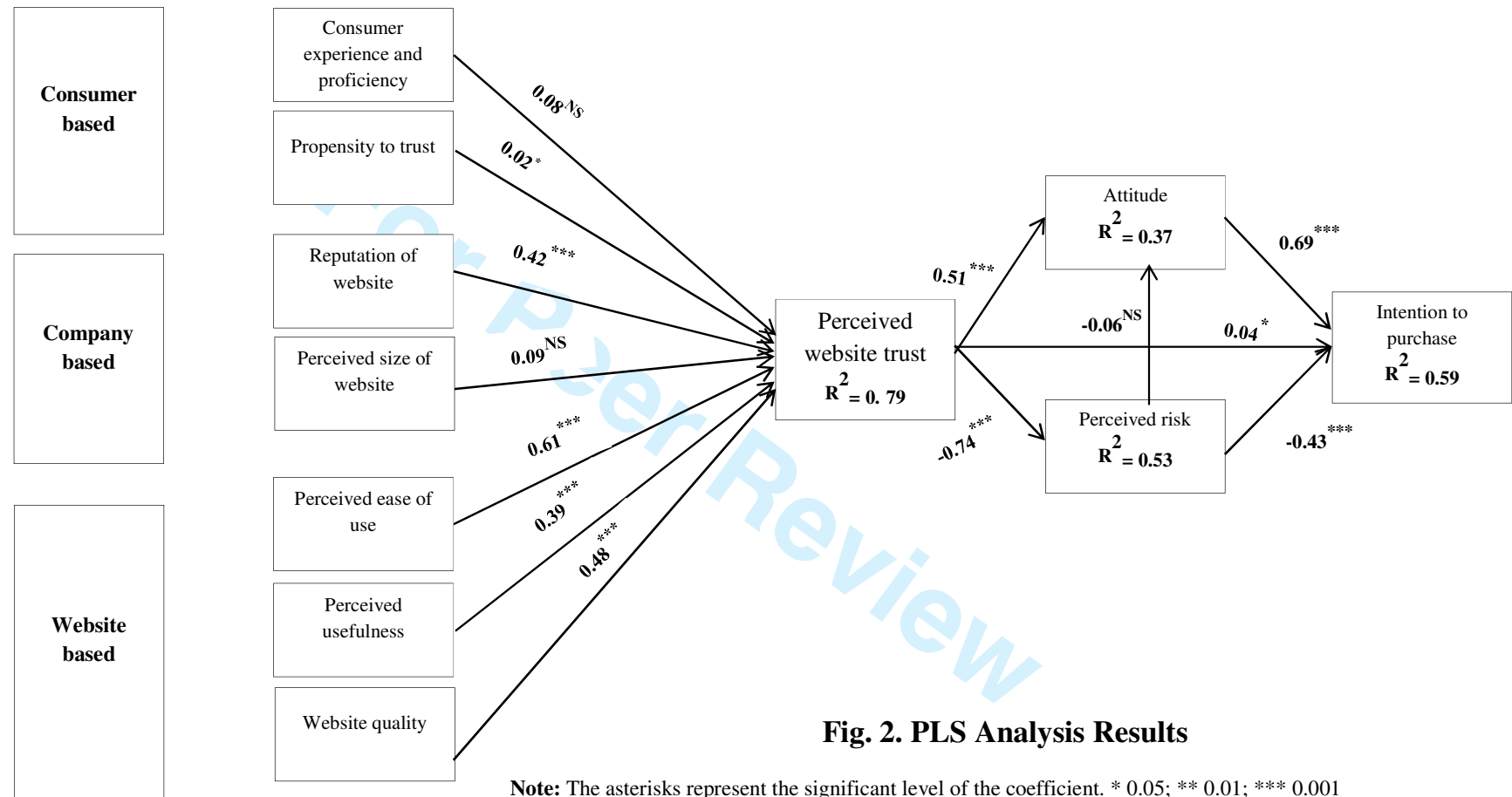


Fig. 2. PLS Analysis Results

Note: The asterisks represent the significant level of the coefficient. * 0.05; ** 0.01; *** 0.001

Appendix

Table 7: Descriptive statistics and normality tests of the constructs in the model

| Statistics | Mean | SD | Corrected item-total correlation | Skewness | Kurtosis | Supporting literature |
|---|------|-------|----------------------------------|----------|----------|---|
| Intentions to purchase travel online (INT) | | | | | | |
| My willingness to purchase a travel product from this website is high (INT1). | 3.8 | 0.837 | 0.670 | -0.758 | 0.630 | Kim et al. (2012); Mukherjee and Nath (2007); Bigne et al. (2010); Castaneda et al.(2007) |
| If I were to purchase a travel product, I would consider purchasing it from this website (INT2). | 4.5 | 0.785 | 0.782 | -0.654 | 0.083 | |
| I intend to continue visiting the website in the future (INT3). | 4.6 | 0.762 | 0.689 | -0.493 | 0.704 | |
| My intention is to continue using this website rather than an alternative one (INT4). | 3.9 | 0.830 | 0.703 | -0.670 | 0.409 | |
| Attitude (ATT) | | | | | | |
| I like the idea of purchasing travel online from this website (ATT1). | 3.6 | 0.840 | 0.758 | -0.583 | 0.710 | Chen and Wells (1999); Castaneda et al. (2007) |
| Purchasing travel online from this website is a wise idea (ATT2). | 4.2 | 0.687 | 0.683 | -0.472 | 0.653 | |
| Purchasing travel online from this website would be pleasant (ATT3). | 4.7 | 0.745 | 0.704 | -0.609 | 0.736 | |
| Perceived risk (RSK) | | | | | | |
| I believe that the risk of purchasing online from this online travel website is very high (RSK1). | 4.5 | 0.829 | 0.765 | -0.583 | 0.359 | Amaro and Duarte (2015); Shim et al. (2001) |
| There is too much uncertainty associated with purchasing online from this online travel website (RSK2). | 3.6 | 0.914 | 0.803 | -0.691 | -0.263 | |
| Compared with other methods of purchasing, shopping online is riskier (RSK3). | 4.1 | 0.780 | 0.794 | -0.480 | -0.594 | |
| Trust (TRU) | | | | | | |
| I believe online travel products sites are trustworthy (TRU1). | 4.6 | 0.774 | 0.784 | -0.513 | 0.487 | (Morgan & Hunt, 1994; Kim, et al., 2011; Corbitt, et al., 2003; Filieri, 2015; Kim, et al., 2008) |
| This online travel products sites are reliable (TRU2). | 3.7 | 0.809 | 0.832 | -0.620 | 0.833 | |
| This online travel product website has integrity (TRU3) | 4.6 | 0.769 | 0.790 | -0.793 | 0.572 | |
| I believe most e-commerce travel web sites will perform to the outmost of the customers' benefit (TRU4). | 4.3 | 0.752 | 0.708 | -0.394 | 0.427 | |
| Experience (EXP) | | | | | | |
| Prior to your participation in this study, how would you rate your level of experience in terms of using this website?(EXP1). | 4.2 | 0.803 | 0.847 | -0.596 | 0.604 | Smith et al. (2005); Filieri (2015) |
| How would you characterize your knowledge about Internet in general? (EXP2). | 3.8 | 0.843 | 0.794 | -0.810 | 0.474 | |
| Number of years of Internet experience (EXP3) | 4.6 | 0.819 | 0.840 | -0.603 | 0.594 | |
| Propensity to trust (PRT) | | | | | | |
| It is easy for me to trust people and most things in my life (PRT1). | 4.3 | 0.765 | 0.769 | -0.490 | 0.174 | (Teo & Liu, 2007; Cheung & Lee, 2001; Bianchi & Andrews, 2012) |
| My tendency to trust people or things in my life is high (PRT2). | 4.5 | 0.739 | 0.815 | -0.671 | 0.403 | |
| I tend to trust people and things in my life even when I have little knowledge about them (PRT3). | 4.6 | 0.705 | 0.840 | -0.583 | 0.692 | |

Reputation (REP)

| | | | | | | |
|--|-----|-------|-------|--------|-------|--|
| This online travel website is well known (REP1). | 4.2 | 0.740 | 0.874 | -0.389 | 0.283 | Teo and Liu (2007); Doney and Cannon (1997); Jarvenpaa et al. (2000) |
| This online travel website has a good reputation in the market (REP2). | 3.9 | 0.784 | 0.893 | -0.440 | 0.190 | |
| This online travel website has a reputation for being honest (REP3). | 4.4 | 0.840 | 0.739 | -0.507 | 0.305 | |

Perceived size (SIZ)

| | | | | | | |
|--|-----|-------|-------|--------|-------|--|
| This online travel website is a very large company (SIZ1). | 3.7 | 0.852 | 0.917 | -0.705 | 0.417 | Teo and Liu (2007); Doney and Cannon (1997); Jarvenpaa et al. (2000) |
| This online travel website is one of the industry's biggest suppliers on the Web (SIZ2). | 4.5 | 0.693 | 0.794 | -0.474 | 0.253 | |
| This online travel websites has global presence (SIZ3). | 4.7 | 0.843 | 0.739 | -0.590 | 0.309 | |

Perceived ease of use (PEU)

| | | | | | | |
|---|-----|-------|-------|--------|-------|---|
| I think that learning to use online travel website would be easy (PEU1). | 4.3 | 0.693 | 0.648 | -0.849 | 0.837 | Davis (1989); Cheng et al. (2006); Moore and Benbasat (1991); Castaneda et al. (2007) |
| I think that interaction with online travel website does not require a lot of mental effort (PEU2). | 3.8 | 0.840 | 0.603 | -0.504 | 0.680 | |
| I think that it is easy to use online travel website to accomplish my travel tasks (PEU3). | 4.2 | 0.594 | 0.780 | -0.349 | 0.743 | |

Perceived usefulness (PUS)

| | | | | | | |
|---|-----|-------|-------|--------|-------|---|
| Purchasing travel online from this website helps me to solve doubts when I plan a travel (PUS1). | 3.9 | 0.853 | 0.740 | -0.607 | 0.684 | Davis (1989); Cheng et al. (2006); Moore and Benbasat (1991); Castaneda et al. (2007) |
| Purchasing travel online from this website helps me to organize travels in a more efficient way (PUS2). | 3.5 | 0.729 | 0.683 | -0.529 | 0.403 | |
| In general, purchasing travel online from this website is useful to plan travels (PUS3). | 4.2 | 0.570 | 0.659 | -0.642 | 0.379 | |

Website quality (QUL)

| | | | | | | |
|--|-----|-------|-------|--------|-------|---|
| This travel website provides sufficient information (QUL1). | 4.4 | 0.570 | 0.693 | -0.529 | 0.572 | (Filieri, 2015; Hsu, et al., 2014; Teo, et al., 2009) |
| This travel website provides reliable information (QUL2). | 4.3 | 0.671 | 0.730 | -0.704 | 0.685 | |
| This travel website provides dependable services (QUL3). | 4.2 | 0.694 | 0.682 | -0.396 | 0.504 | |
| This travel website guarantees users' privacy and security (QUL4). | 3.7 | 0.703 | 0.831 | -0.753 | 0.483 | |