DETERMINANTS OF CUSTOMER LOYALTY: A FIELD RESEARCH IN AVIATION INDUSTRY

Nuriye Güreş

*Iskenderun Technical University, Hatay, Turkey*

Hilal İnan

*Cukurova University, Adana, Turkey*

Seda Arslan

*Iskenderun Technical University, Hatay, Turkey*

ABSTRACT

The encouragements of Turkish government for aviation industry in 2003 have paved the way for private airlines to enter the market. Through the increasing number of airlines and the rivalry between them, especially low-cost carriers have started to give transportation service with cheaper ticket prices. According to The International Air Transportation Association (IATA) estimates, the number of passengers travelling with airlines around the world will reach to 3.8 billion passengers in 2020 and low-cost carriers’ flight networks and numbers especially in developing countries as Turkey will continue to gain momentum. When considering the increased passenger traffic in Turkish travel industry, providing the passenger loyalty for Turkish low-cost carriers has also become obligatory for these companies’ survival in the long-run. In this study, determinants of passengers’ loyalty as perceived value and trust have been searched. For this purpose, 350 questionnaires were applied to the passengers travelling with low-cost carriers at Hatay and Adana Airports in Turkey, 311 of which were analyzed after eliminating invalid ones. Structural equation modelling was applied for data analysis. According to the analysis results, perceived value and trust were identified as the important determinants of passenger loyalty.

KEYWORDS

Airline Marketing, Low-Cost Carriers, Perceived Value, Trust, Passenger Loyalty, Turkish Aviation Industry.

**Assc. Prof. Nuriye Gures** has been working in Iskenderun Technical University, School of Civil Aviation since 2007 and she is the Chair of Aviation Department. She has been studying Marketing, Customer Relationship Marketing and Airline Marketing. Email: nuriye.gures@iste.edu.tr, Tel.: +90 3266135600 / 5202

**Prof. Hilal İnan** has been working in Cukurova University, Faculty of Economics and Administrative Sciences, Department of Business Administration. She has been studying Marketing and Services Marketing. Email: ihilan@cu.edu.tr, Tel.: +90 3223386084

**Res. Asst. Seda Arslan** has been studying in Iskenderun Technical University School of Civil Aviation, Department of Aviation Management since 2009. She has been attending to her doctorate degree program and studying Airline Marketing, Social Media and Technology in Services. Email: seda.arslan@iste.edu.tr, Tel: +90 3266135600 / 5206
1. INTRODUCTION

In recent years, there has been important progress in Turkish Aviation Industry. The Turkish Government has been giving more support to the airlines performing in the sector since 2003. By this way, the liberalization in this market has increased and new airlines have entered the sector. Thus, both domestic and international airlines have put in an appearance in Turkish Airline Market and the competition among them has also gone up. Because of the increasing intense competition in the industry, some airlines have preferred to put a new business model to use named Low-cost carriers (LCC).

LCC includes airlines that use aggressive, competitive mind-sets to gain competitive advantages and better returns than their counterparts “traditional airlines” (Akamavi et al., 2015; Graf, 2005; Kangis & O’Reilly, 2003; Kumar, 2006; McIay & Reynolds-Feighan, 2006; Porter, 1996). Also, Low cost carriers (LCCs) can be defined as the airlines which offer lower fares to attract passengers by reducing their service costs by means such as reducing free in-flight services, standardizing airplane fleet and cabins, increasing luggage restrictions, benefiting from direct distribution channels (internet, smart phones, social media, etc…) and using secondary airports (Chang & Hung, 2013).

In international aviation industry, there are many airlines using this competitive strategy such as Southwest Airlines in the USA, Rynair, Easyjet, Germanwings in Europe and Pegasus in Turkey. Along with rising number of LCC, traditional airlines have been adding new and different service qualifications (flying chef, in-flight entertainment service cost free, wider spaces between the seats, etc…) to overcome the competition with LCC. Thus, providing passenger loyalty has become more important for LCC.

At the same time, the LCC has become an interesting research area and it has attracted the attention of numerous scholars worldwide (Barrett, 2004; Zou et al. 2014; Akamavi et al, 2015; Chang & Hung, 2013; Chiou & Chen, 2010; Forgas et al, 2010; Han et al, 2014; Han, 2013; Mikulić & Prebežac, 2011; Yang et al., 2012; Diggines, 2010; Pan & Truong, 2018; Taumoepeau et al., 2017; Zuidberg & de Wit, 2016; Lu, 2017; Bachwich & Wittman, 2017; Rajaguru, 2016; Koklic et al., 2017).

Despite the growing importance of the subject in international literature, the studies made in this field are relatively limited in Turkey. There are a few studies related to the passenger loyalty in aviation (Mutlu & Polat Sesliokayuncu, 2015; Atalık, 2005; Atalık, 2006; Çalışır et al., 2015), but there isn’t any study about Turkish passengers’ loyalty with LCC. For this reason in this study, Turkish passengers’ loyalty towards LCC and the factors as perceived value and trust that may effect the loyalty were searched.
2. LITERATURE REVIEW

2.1. Customer Loyalty

Customer loyalty is defined as “a deeply held commitment to rebuy or repatronize a preferred product / service consistently in the future, thereby causing repetitive same-brand or same brand-set purchasing, despite situational influences and marketing efforts having the potential to cause switching behavior.” (Oliver, 1999).

Customer loyalty may provide positive word-of-mouth and word-of-mouse (Severt et al, 2007), reduces marketing costs and turnover expenses, increases cross-selling (Caruana, 2004; Griffin, 1995; Reichheld & Sasser, 1990; Yang and Liu, 2003). Besides the costs of winning a new customer are six times greater than the costs of maintaining an existing customer (Akamavi et al, 2015).

Customer loyalty is important to airline companies, too. Because passenger loyalty is one of the key indicators that influence competitive advantage in the global airline market (Cooil et al., 2007; Mägi, 2003; Wirtz et al, 2007; Akamavi et al, 2015). If airlines want a sustainable market share, they should provide passenger loyalty (Chang & Hung, 2013; Kumar & Shah, 2004). According to Binggeli, Gupta, and de Pommes (2002) passenger loyalty may increase airlines’ revenue by as much as 2.4% per year.

2.2. Perceived Value

Perceived value is a very important concept in marketing because according to researches, one of the important determinants of customer satisfaction is perceived value (Cronin et al., 2000; Chen, 2008; Oh, 1999). Also, improved customer satisfaction and high product value offers are the important factors of developing loyalty (Yang and Peterson, 2004). According to Zeithaml (1988), perceived value is “consumers’ overall assessments of the utility of a product based on perceptions of what is received (volume, high quality or convenience) and what is given (money, time or effort)”. Based on the equity theory, perceived value concept can be explained through comparing benefits and sacrifices associated with the offering. (Yang and Peterson, 2004). Perceived benefits can be explained as a combination of different product attributes available in relation to a particular buy and use situation (Snoj et al., 2004). The overall cost or sacrifice made by the customer includes both monetary (such as price of the product) and nonmonetary costs (such as time, effort and search) (Sánchez-Fernández and Iniesta-Bonillo, 2007; Lovelock and Wirtz, 2011).
2.3. Trust

Trust is a key factor in successful marketing (Urban et al., 2000), especially in building and continuing long-term relationships (Akbar and Parvez, 2009). According to Gundlach and Murphy (1993), trust is the most universally accepted factor in any human interaction or exchange. Bhattacharya, Devinney and Pillutla (1998) define trust as “an expectancy of positive outcomes that one can receive based on the expected action of another party in an interaction characterized by uncertainty”.

Many studies mentioned the relationship between trust and loyalty (Sirdeshmukh et al., 2002; Kassim and Abdullah 2010; Ndubisi, 2007). According to Reichheld and Schefter (2000), gaining the trust of the right customers generate loyalty. Also according to Ndubisi (2007), trust is an important factor of firm-customer relationships and so in generating the loyalty. In their research Akbar and Parvez (2009) found out that both ”trust and customer satisfaction are significantly and positively related to customer loyalty” and they mentioned trust as an important antecedent of customer loyalty.

3. METHODOLOGY

Considering the literature and the survey purpose, hypotheses were defined as follows:

**H1:** The value perceived by a user in respect of an airline directly and positively influences the user’s trust in the airline

**H2:** The value perceived by a user in respect of an airline directly and positively influences the user’s loyalty to the airline

**H3:** A user’s trust in an airline directly and positively influences the user’s loyalty to the airline

The proposed research model can be seen in Figure 1.

3.1. Measures of the Constructs

The survey questionnaire consisted of four sections. The first three sections were designed to obtain each respondent’s perceived value (9-item), trust (4-item) and loyalty (4-item) towards LCC. All these scales were measured using the scale developed by Forgas et al (2010), but perceived value was adapted to our study. Respondents were asked to indicate their agreement level of each item of the first three sections on the 5-point Likert scale organized by “strongly disagree (=1)” to “strongly agree (=5)”. Survey questionnaires were translated into Turkish and then implemented to Turkish passengers preferred LCC. The last section reported the respondents’ demographic and flight information as; gender, age, education
level, average monthly income, airline decision, flight type, flight purpose, flight frequency and the reason for selecting this airline via a categorical scale.

**Figure 1: Research Model**

3.2 Data Collection and Sample Design

A self-administered questionnaire survey was conducted at Hatay and Adana airports in Turkey. In this study, convenience sampling was used as the sampling method. Respondents were first asked whether they experienced LCC before. If they replied positively, then they were invited to participate in the survey. For each question, respondents were asked to give an answer which best describes their degree of agreement. The data was collected from 311 Turkish passengers experienced LCC before.

The demographic characteristics of the respondents were as follows; 57.2 percent of them were male and 42.8 percent were female. The great majority of the respondents were aged between 20 and 29 years old (69.1 percent), had a university degree or higher educational level (93.9 percent) and domestic passengers (88 percent) as flight type. Respondents’ average monthly income was mostly ranged between 1000–3000 TL (61.1 percent). Most of the respondents had a flight for vacation purposes (40.5 percent) and visiting friends/relatives purposes (23.5 percent), they had made the airline decision themselves (72.7 percent) and their flight frequency was once a quarter were 41.2%. Price was found as the most important reason for selecting airlines (62.1 %) compared to other factors as experience (20.3 %), advertising (4.8 %), recommendation (9.3 %) and others (3.5 %).

3.3 Data Analysis

In order to analyze the data, confirmatory factor analysis (CFA) and structural equation modeling (SEM) analysis were applied by using LISREL. Thus, it was aimed to check construct validity, the goodness-of-fit indices for the measurement and structural models and examine the relationship among constructs. In addition, frequency analysis was implemented to
analyze the demographic variables by using SPSS. The Cronbach alpha reliability scores of
the scales were found as \( \alpha = 0.85 \) for perceived value, \( \alpha = 0.78 \) for trust and \( \alpha = 0.89 \) for loyalty.

4. RESULTS

4.1 Measurement Model

A confirmatory factor analysis using LISREL 8.5.1 was conducted to test the measurement
model. The goodness-of-fit indices were used to assess the overall model fit. According to the
results of the study, the fit indices for the measurement model were acceptable level as; the
ratio of the Chi-square value to degrees of freedom (\( \chi^2/d.f. = 2.93 \)) is less than 3 and other
indices such as normalized fit index (NFI=0.91), goodness of fit index (GFI=0.92) and
comparative fit index (CFI=0.92) are greater than the recommended value of 0.9. The root
mean – square error of approximation (RMSEA) is 0.081, which is less than 0.10. (Hair et al.,
2006). The goodness-of-fit indices from confirmatory factor analysis demonstrated that the
measurement model had a good fit with the data collected.

As seen in Table 1, the average variance extracted (AVE) was used to assess convergent
validity. AVE of each measure ranges from 0.68 to 0.83, which was more than 50 percent of
the variance as suggested by Bagozzi & Yi (1988) and indicated that the convergent validity
was appropriate. Discriminant validity was assessed by comparing the AVE with the squared
correlation between constructs (Fornell & Larcker, 1981). The squared correlations between
pairs of constructs were less than the AVE, confirming discriminant validity. Moreover, a
descriptive analysis was run on each construct to measure their means: perceived value (3.61),
trust (3.79), and loyalty (3.89).

Perceived value, the independent latent variable, has consisted of nine items and all of the
items have got positive coefficients. The highests of these observed variables is PV4 (0.76)
and PV9 (0.72). This means that if social value (PV4) of the airline company and the
professionalism of the personnel (PV9) increase, perceived value of the passengers may
increase positively too. Similarly, trust, latent variable, has comprised of four items and all of
them have got positive coefficients. T2 (0.76) and T3 (0.76) observed variables have got the
highest values. From this viewpoint, it can be said that if the airline companies fulfil their
responsibilities truly and meet the needs of passengers effectively, trust level of passengers
can be concluded positively towards the airline company.
Table 1: Confirmatory factor analysis results

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Standardized Factor Loading</th>
<th>t value</th>
<th>Average variance extracted (AVE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV1</td>
<td>0.69</td>
<td>13.21</td>
<td></td>
</tr>
<tr>
<td>PV2</td>
<td>0.64</td>
<td>12.25</td>
<td></td>
</tr>
<tr>
<td>PV3</td>
<td>0.61</td>
<td>11.33</td>
<td></td>
</tr>
<tr>
<td>PV4</td>
<td>0.76</td>
<td>15.13</td>
<td></td>
</tr>
<tr>
<td>PV5</td>
<td>0.69</td>
<td>13.22</td>
<td>0.68</td>
</tr>
<tr>
<td>PV6</td>
<td>0.66</td>
<td>12.64</td>
<td></td>
</tr>
<tr>
<td>PV7</td>
<td>0.62</td>
<td>11.47</td>
<td></td>
</tr>
<tr>
<td>PV8</td>
<td>0.69</td>
<td>13.22</td>
<td></td>
</tr>
<tr>
<td>PV9</td>
<td>0.72</td>
<td>14.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T1</td>
<td>0.63</td>
<td>8.69</td>
<td></td>
</tr>
<tr>
<td>T2</td>
<td>0.76</td>
<td>10.49</td>
<td>0.72</td>
</tr>
<tr>
<td>T3</td>
<td>0.76</td>
<td>10.49</td>
<td></td>
</tr>
<tr>
<td>T4</td>
<td>0.68</td>
<td>9.67</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td>0.79</td>
<td>15.12</td>
<td></td>
</tr>
<tr>
<td>L2</td>
<td>0.86</td>
<td>16.83</td>
<td>0.83</td>
</tr>
<tr>
<td>L3</td>
<td>0.84</td>
<td>16.44</td>
<td></td>
</tr>
<tr>
<td>L4</td>
<td>0.81</td>
<td>15.51</td>
<td></td>
</tr>
</tbody>
</table>

4.2 Structural Model and Test of Hypotheses

A similar set of fit indices was used to examine the structural model. The results with their corresponding recommended values, provided evidence of a good model fit (χ²/d.f. = 2.97, NFI = 0.92, GFI = 0.91, CFI = 0.91, RMSEA = 0.085). Regarding the hypothesis tests, perceived value has a positive effect on trust (γ₁ = 0.53, t-value = 9.69). Thus, H₁ was supported. Furthermore, perceived value was found to have a significant positive effect on passenger loyalty (γ₂ = 0.53, t-value = 5.46), supporting hypothesis H₂. The relationship coefficient between perceived value and trust was 0.78 (PV → T), perceived value and passenger loyalty as 0.48 (PV → L) were found. So, it’s been seen that a rise in perceived
value per unit has a relatively high effect on trust with 0.78 increase rate, but medium-level effect (0.48) on passenger loyalty. The coefficients are positive and found statistically significant with 5 % significance level. It can be stated that as the level of passengers’ perceived value goes up, the level of passengers’ trust and loyalty towards the airline company go up, too or vice versa.

Finally, trust has been found as a significant determinant of passenger loyalty ($\gamma_3 = 1.02$, $t$-value = 0.49), supporting H3. The relationship coefficient between trust and passenger loyalty was found as 0.42 ($T \rightarrow L$). So, it’s been seen that rise in trust per unit has less than a half effect on passenger loyalty.

5. DISCUSSION AND CONCLUSION

Having loyal customers is essential for the success of any company. In aviation industry too, loyalty of passengers especially for the LCC, serving basic service, that compete with traditional airlines, serving full service to their passengers, has become more important in today’s competitive market. So, in this study, passenger loyalty has been studied and the results of this study have provided useful insights into the behaviours of LCC passengers.

Findings of this study revealed that LCC should have a positive social value and the personnel should be working professionally in order to increase the positive perceived value of the passengers. Social value includes the increase of airline image, having a better image than competitors and having preferred by many passengers. So, LCC should make an effort to differentiate themselves from their competitors. Furthermore, LCC should employ qualified
personnel and they should train and motivate them in the best way. The personnel should have the necessary knowledge and abilities, brush up their job knowledge, be ready to help and behave politely to the passengers (Forgas, et al. 2010).

Besides, LCC should fulfil their responsibilities and concern passengers’ needs properly. They have to offer their services right first time and with a continuous improvement to increase trust level of passengers. Also, LCC have to search and understand the needs and requests of passengers very well, listen to them, consider their complaints and customize their services according to the feedback they got from passengers (Forgas et al., 2010; Chang & Hung, 2010).

In this study, perceived value was found as an important antecedent of trust (Forgas et al, 2010). So, in order to increase the trust level of passengers, LCC should have a good brand image than other airlines and the personnel should serve professionally to the whole passengers. Also, it’s concluded that perceived value has a positive effect on passenger loyalty as consistent with other researchers’ study (Forgas et al, 2010; Al-Refaie et al, 2013). Therefore, LCC should try to give better services by using online / mobile check-in, boarding systems and providing better baggage service. Furthermore, they should have modern, safe aircrafts, be on time, efficient flights with suitable times and frequencies. Besides, they should handle passengers’ complaints and solve their problems immediately. All those services may be costly for LCC at first, but in the long run, it may pay for itself and also passenger loyalty of LCC and profits may be increased.

In addition, it’s been found that there is a positive relationship between trust and loyalty similar to previous studies (Akamavi et al, 2015; Forgas et al, 2010; Han, 2013). Offering sincere and honest information to the passengers, fulfilling their commitments, meeting passengers’ needs and having enough resources and experience to do their job well are very important for LCC to have a good trust level of passengers. Thus they may be able to maintain passenger loyalty. If passengers become loyal to the airline, they may repurchase the services of the same airline and provide positive word-of-mouth communication (Nadiri et al., 2008, Gures et al, 2014). Finally, price was found as the most important reason for selecting LCC as found in previous studies (Gures et al, 2014; Digginess, 2010; Mikulić & Prebežac, 2011; O’connell & Williams, 2005; Chiou & Chen, 2010; Pan & Truong, 2018). So LCC should give service at a cheaper price than competitors to attract more customers, provide and keep loyal passengers.
Although this study contributes to airline marketing literature, it has several limitations too. In this study, the relationship among perceived value, trust and passenger loyalty were searched. As it is seen from this study, perceived value and trust have a relatively lower effect on passenger loyalty. So, some other variables should be included into the model to see their effects on passenger loyalty. Potential independent variables that can be studied in further studies are switching cost, customization, social media and some other variables.

Moreover, in this study only quantitative analysis was used. In the following studies, qualitative analysis should also be used to have better results. In addition, this study was applied to the passengers in two airports of Turkey. There are more airports in this country, so surveys should be applied in these airports too. Also in future studies, the number of passengers should be increased to reflect the population and get favourable results about passenger loyalty.

REFERENCES


APPENDIX

Trust

T1 The information offered by the company is sincere and honest
T2 In general the company fulfils its commitments
T3 The company is concerned for its customers' needs
T4 The company has the resources and experience to do its job well

Perceived Value

PV1 Airport installations seem well organized
PV2 The aircraft seem modern, comfortable and safe
PV3 The personnel know their job well
PV4 This company’s planes arrive and leave punctually
PV5 The service is good for the price paid
PV6 The queues to check-in are reasonable
PV7 It is no problem that the airport is far from the city of origin/destination
PV8 I feel happy with the service
PV9 This company has a very good image

Passenger Loyalty

L1 I like flying with this company
L2 I believe it is a good company
L3 I will continue to travel with this company
L4 I will continue to recommend this company