Research on the Influence of Emotional Labor Strategy used by Public Transportation Employee on Service Satisfaction

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Abstract—The aim of the research is to understand whether the accuracy of customer detection of employee emotional labor strategy would influence the overall service satisfaction. From path analysis, it was found that employee’s positive emotions positively influenced service quality. Service quality in turn influenced customer detection of employee emotional deep action strategy and customer detection of employee emotional surface action strategy. Lastly, customer detection of employee emotional deep action strategy and customer detection of employee emotional surface action strategy positively influenced service satisfaction. Based on the analysis results, suggestions are proposed to provide reference for human resource management and use in relative fields.

Keywords—Emotional labor, Emotional deep action strategy, Emotional surface action strategy, Service satisfaction

I. INTRODUCTION

RECENT researches on service management focus more and more on the influence of emotions during a service, especially the employee’s emotional labor when providing the service. Reference [15] mentioned that the issue has gained high attention from various researchers who emphasized on the understanding of whether service organizations could use more effective employee emotion management to provide “service with a smile” to customers. Reference [18] proposed concepts relating to emotional labor. Among them, deep acting refers to one trying to modify one’s inner emotion and feeling in order to show the true inner emotion. It means one is convincing oneself to accept the emotion and feeling while showing the expected emotion. Surface acting on the other hand refers to one showing disguised or exaggerated emotion instead of one’s true emotion. The above two actions represent employee’s main emotion regulation strategies in order to meet the expected emotional display [21], [22].

Specifically speaking, whether the employee’s emotion would influence customer’s perceived service quality, which in turn influences their feedback for service quality, is discussed in the research.

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B. Research Purpose

The purpose of the research is to discuss the influence of Taipei City bus drivers’ emotional labor strategies on service satisfaction. The influence of the bus drivers’ positive and negative emotions on the customer’s perceived service quality and service satisfaction and their relationships are further analyzed. Moreover, the influence models between the influence factors are analyzed using the questionnaire sample data.

C. Research Scope and Limitation

The scope and limitations of the research are described in the following:

1) The research samples are Taipei City residents only which means the results cannot be inferred to other cities.

2) The research uses the research samples to understand the influence of Taipei City bus drivers’ emotional labor on commuter’s perceived service quality and service satisfaction which means the results cannot be inferred to other psychological issues.

II. LITERATURE REVIEW

A. Theoretical Background

1) Influence of emotion when providing service

The research [27] supported the correlation between employee’s positive emotions (positive greeting and eye contact etc) and customer satisfaction. Their research focused on the explicitness of emotion and mainly discussed whether friendly service and obvious interaction led to customer’s positive feedback. Based on the outcome of literature review, there are only three researches that discuss in-depth the way emotional labor strategies influence the service outcome [16], [20]. During the research process on emotional contagion, reference [20] found important influences of employee’s true emotion when stimulating customer-emotion services. Although the important findings relating to the issue are found in the researches, the researchers did not accurately detect the influence of emotional labor on customer’s in-store consumption experience and did not accurately detect whether the customer can correctly identify the authenticity of the emotions.

2) Influence of emotion on emotional labor

Researches regarding emotional labor emphasize on discussing the process of self-regulatory to allow employee to show the emotion that meets the organization’s expectation.
Service organizations often have clear or implied emotional display rules for which the rules or standard behavior requirements are used to indicate the emotions that are appropriate to show in front of customers and the emotions that should be suppressed [21], [24]. When deep acting, employee would try to show his/her true feeling though not every attempt is successful. However, in addition to showing emotion by surface acting, deep acting is more likely to be the representation of true emotion. In particular, the key point valued the most is the way the employee changes his/her true feeling when he/she only tries to change the external emotion and not show the true emotion.

When surface acting, frustrated employee may conceal the frustration and simply smile to annoying customers. Therefore, putting on a mask does not truly change the inner feeling and performance. The employee is rather faked and is not showing the true emotion [16]. Deep action and surface action strategies are important theoretical bases of social psychology, for which the concept comes from emotion regulation [6], [14], [17].

3) Emotion recognition
Emotion recognition has become an extensive research issue in social psychology. Emotional Intelligence quotient in particular is still the most reliable testing measure [13]. Research data shows human can obtain the ability to gain important work result and performance by understanding non-language behavior and detecting reactions disguised by emotion [12], [13]. Basically, although one can find the true emotion among disguised emotions, most of the judgments are tended to be wrong [8]–[11].

4) Theoretical model that influences emotional labor strategies and customer detection accuracy

The emotion management of onsite employees has been confirmed to be an important factor that maintains the service quality and service satisfaction [2], [26]. While a service is being delivered, the experience and perception toward emotion strongly influence customer’s feedback for the quality of the service received [23], [25]. Reference [14] explored employee’s emotional labor strategies of deep acting and surface acting and found they influenced the service quality and service satisfaction respectively. The two emotional labor strategies establish customer’s perception toward service quality and develop the connection between customer loyalty and the corresponding service organization.

Reference [19] proposed that service quality is highly related to the establishment of excellent service satisfaction. Furthermore, researches have proved that if the employee has customer-oriented attitude and behavior and if the service organization wants to keep customer’s loyalty toward it [7], [19], service quality is the main factor that determines service satisfaction [29].

B. Conclusion from Literature Review

From Literature Review above, it is known that when providing services, employees in the service industry are influenced by self-emotion for which the impact on customers is particularly significant. In modern society where the competition is aggressive, apart from putting every effort in developing new customers, businesses have realized the importance of keeping valuable existed customers. Thus, they have been devoting themselves in counseling and managing the employee’s emotions. After conducting literature review, it is found that employee’s positive emotions and employee’s negative emotions directly influence service quality. Moreover, service quality directly influences customer detection of employee emotional surface action strategy and customer detection of employee emotional deep which in turn influence service satisfaction.

Based on the above findings, the following hypotheses are proposed:

H1: The bus driver’s (employee) positive emotions will positively influence the passenger’s (customer) perceived service quality.

H2: The bus driver’s (employee) negative emotions will negatively influence the passenger’s (customer) perceived service quality.

H3: Service quality will positively influence the passenger’s (customer) detection of the bus driver’s emotional deep action strategy.

H4: Service quality will positively influence the passenger’s (customer) detection of the bus driver’s emotional surface action strategy.

H5: The passenger’s (customer) detection of the bus driver’s emotional deep action strategy will positively influence service satisfaction.

H6: The passenger’s (customer) detection of the bus driver’s emotional surface action strategy will positively influence service satisfaction.

III. Method

A. Research Target and Sampling Method

1) Sample source
The research targets were recruited through convenience sampling. Online questionnaire were distributed to invite Taipei City residents to fill in the questionnaire via the Internet. A total of 98 effective questionnaires were returned. In addition, the research team visited Taipei City bus drivers who were responsible for the routes mentioned by the questionnaire answerers in May 2011 to conduct paper-form questionnaire investigation. A total of 52 effective questionnaires were returned. After integrating the two sets of data, they were used as the research data for later analyses.

2) Questionnaire distribution
After the questionnaire was developed, the research team used convenience sampling and sent the website address of the online questionnaire via email to Taipei City residents as the invitation to invite them to fill out the questionnaire. The answering duration for the online questionnaire was a total 25 days from 16th of April 2011 to 10th of May 2011.

IV. Research Tool Development

A. Citation of Research Tool
The research tool was composed of 18 questions, divided in 6
main categories. The category, Employee’s positive emotions, was measured by 3 questions; Employee’s negative emotions was measured by 3 questions; Service quality was measured by 2 questions; Customer detection of employee emotional deep action strategy was measured by 3 questions; Customer detection of employee emotional surface action strategy was measured by 3 questions; Service quality was measured by 4 questions.

B. Reliability of the Research Tool

For the reliability testing of the scale used in the research, it is shown in Table I. A total of 98 effective samples were used in the research for which the reliability coefficient was between .667~.891. Among the categories in the questionnaire, the one with the lowest reliability coefficient was Employee’s positive emotions (Cronbach’s $\alpha$=.677) and the one with the highest reliability coefficient was Service quality (Cronbach’s $\alpha$=.891). Moreover, the reliability coefficient of the overall scale was .888. Based on the results of the internal consistency reliability analysis, it is shown that in addition to Employee’s positive emotions meeting the reliability standard, the Cronbach’s $\alpha$ for other categories and the overall scale were above .70 which means the scale has stable reliability.

<table>
<thead>
<tr>
<th>Category</th>
<th>No. of</th>
<th>Composite Reliability Coefficient in the Research done by Groth et al. (2009) (n=285)</th>
<th>Cronbach’s $\alpha$ (n=98) in the Present Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee’s Positive Emotions</td>
<td>3</td>
<td>.90</td>
<td>.667</td>
</tr>
<tr>
<td>Employee’s Negative Emotions</td>
<td>3</td>
<td>.92</td>
<td>.819</td>
</tr>
<tr>
<td>Service Quality</td>
<td>2</td>
<td>.94</td>
<td>.891</td>
</tr>
<tr>
<td>Detection of Deep Action</td>
<td>3</td>
<td>.92</td>
<td>.731</td>
</tr>
<tr>
<td>Detection of Surface Action</td>
<td>3</td>
<td>.93</td>
<td>.878</td>
</tr>
<tr>
<td>Service Satisfaction</td>
<td>4</td>
<td>.94</td>
<td>.754</td>
</tr>
<tr>
<td>Overall Scale</td>
<td>18</td>
<td>---</td>
<td>.888</td>
</tr>
</tbody>
</table>

Information Source: Collected by the research

C. Research Framework

In the research, Taipei City commuters were used as the sample to discuss the research framework proposed by reference [18]. The research framework was modified into the framework used in the research as shown in Figure 1.

D. Implementation Procedure

The research procedure is shown in Figure 2.

Based on the research motivation and research purpose, relative literature were collected to plan the research framework and design the questionnaire. After questionnaire investigation and analysis were carried out, hypothesis verification and deduction were conducted and conclusion and suggestion were proposed at the end.

V. RESULT

A. Descriptive Analysis

The results obtained from descriptive analysis on the research sample background are shown in Table II.

<table>
<thead>
<tr>
<th>Item</th>
<th>Group</th>
<th>No. of People</th>
<th>%</th>
<th>Missing Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Female</td>
<td>62</td>
<td>63.27</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>36</td>
<td>36.74</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>&lt; 18</td>
<td>16</td>
<td>16.33</td>
<td></td>
</tr>
<tr>
<td></td>
<td>19~30</td>
<td>72</td>
<td>73.47</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 31</td>
<td>10</td>
<td>10.20</td>
<td></td>
</tr>
<tr>
<td>Identity</td>
<td>Student</td>
<td>64</td>
<td>65.31</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Office</td>
<td>21</td>
<td>21.43</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unemployed</td>
<td>13</td>
<td>13.27</td>
<td></td>
</tr>
</tbody>
</table>

Information Source: Collected by the research
Based on the gender of the subjects, there were 36 male samples (36.74%) and 62 female samples (63.27%). From the result of the descriptive analysis, it is known there were more female than male subjects. Based on the age of the subjects, the analysis result shows most of the subjects were between 19 to 30 years old (73.47%) and only a few subjects were older than 31. It indicates most of the questionnaire answerers were young people, who are also the main group of people that take buses. Moreover, based on the identity of the subjects, it is shown that most of the subjects were students (65.31%) and only a few subjects were unemployed. It means most of the questionnaire answerers were students and office workers.

B. Structural Equation Model

The standardized path coefficient analysis for the model is shown in Figure 3 and the model fit indices are shown in Table III.

From the standardized path coefficients of the research model shown in Figure 3, it is found that Employee’s positive emotions significantly influenced Service quality ($\beta = .600; p > .001$) which means H1 is taken to be true. Employee’s negative emotions did not significantly influence Service quality ($\beta = .042; p > .05$) which means H2 is taken to be wrong. Moreover, Service quality influenced Customer detection of employee emotional deep action strategy ($\beta = .398; p < .001$) and Customer detection of employee emotional surface action strategy ($\beta = .338; p < .001$) which means H3 and H4 are taken to be true. Lastly, Customer detection of employee emotional deep action strategy ($\beta = .460; p < .001$) and Customer detection of employee emotional surface action strategy ($\beta = .201; p < .05$) influenced Service satisfaction which means H5 and H6 are taken to be true. The values of model fit index established in the research are summarized in Table III.

The model fit indices of the theoretical model in sequence are: The Chi-square ($\chi^2$) was 5.181 and was not significant ($p > .05$) which meant the model fit was not rejected [1]. Moreover, the Chi-square (degree of freedom) ratio was 1.727 which was smaller than 3. Based on the determination standard proposed by reference [28], it means the model was a good fit. The CFI was .990 which was higher than .90. It means the model was a good fit [4]. The GFI was .983 which was higher than .90. It means the model was a good fit [3]. The SRMR was .036 which was smaller than .050. It means the model was a good fit [5]. In general, the entire model fit indices of the model established in the research met the standard for a good fit. It shows the model established in the research is true.

VI. CONCLUSION AND SUGGESTION

A. Overall discussion on the Research Results

As confirmed by both literature review and analysis result, it is shown that bus driver’s (employee) positive emotions would influence passenger’s perceived service quality. On the other hand, bus driver’s negative emotions would not improve passenger’s perceived service quality. Moreover, due to perceived service quality, the passenger can detect the emotional labor strategy the bus driver uses. Lastly, the passenger would decide the service satisfaction toward the bus driver from the bus driver’s emotional labor strategy he/she detected.

B. Contribution of the Results

In terms of practical implementation, the analysis results show that customers in general are able to clearly detect employee’s emotional strategy and it would reflect on customer’s perceived service quality. Therefore, when training employees, businesses should strengthen employee’s emotion management and emphasize on how employees could serve customers with sincere attitude from the inside. That way the service quality would be improved which would increase the service satisfaction and strengthen the customer loyalty to better the business profit and reach the goal of sustainable management.

In terms of academic research, the scale established for employee’s emotional labor strategies has excellent reliability. It can be used to carry out further academic research to find out the difference and similarity in the employee’s emotional labor strategy detected by customers in Taiwan and in overseas countries. It can also be used to analyze the difference between various industries. The scale can even be modified more to seek more accurate measurement results. Large amount of samples could be used to establish the norms for the scale and develop the scale into a universal evaluation tool.
REFERENCES


