A Self-Inducing Interactive Animation Technology Based on Analyzing Five-Element Attributes of One's Name and Birth Date Numerology for Enhancing School Counseling Quality

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Abstract: This paper proposes a self-inducing interactive animation technology based on one's name and birth date numerology to increase school counseling quality. The proposed technology contains three main subjects including analyzing one's name and birth date, creating the inducing cards, and constructing the interactive user interfaces. An individual's name and birth date are used to analyze his/her inherent personal features which are interpreted into different five-element characteristics, named Gold, Wood, Water, Fire and Soil. This study also utilizes 52 inducing cards as the referred materials in designing animation scenes. In addition, the interactive user interfaces are built by using Visual Basic programming codes and Unity game-based development tool. According to the experimental results, the proposed technology can help the counseling personnel to be students' triggers, inducers and motivators instead of educators and commentators. Conclusively, this study can inspire students' thinking, expression and interactive capabilities as well as help students to understand their self-consciousness and make own choice after clarifying their thoughts.

Keywords: Counseling; name; birth date; numerology; inducing cards

1. Introduction

In order to enhance the elite education, ministry of education in Taiwan has started to promote widespread education by extending the compulsory education to high school level since 2012. Meanwhile, ministry of education requires the schools located at cities and counties setting up the student consultative center to provide professional and effective counseling services [1]. This policy implies that the schools' consultants, especially for mentors and tutors, play a very important role because they have to provide an individual adaptive counseling support timely and effectively, specifically for the students who have counseling needs and high care needs. Generally, evaluating the effectiveness of a counseling service includes three aspects. They are: (1) increasing the communication capabilities between counseling people and students; (2) understanding whether the students' behavior problem is improved or their learning achievement are enhanced; and (3) developing new adapting capabilities and solving problems effectively. In addition, the training staff usually reviews the effectiveness of consultative guidance as the basis of revising the counseling strategies or making the improvements. Therefore, this paper applies psychology, one's name and birth date numerology, and interactive animation technology to increase the

counseling quality as well as ensure the counseling contents is matched with the accuracy and objectiveness.

The name and Bazi (birth date) numerology have been used as the reference for evaluating an individual's personality, inherent personal features, and interpersonal relationships based on the probability and statistical analysis of cumulative case studies for thousands of years. The literatures [2-6] are the studies related to the interpersonal relationship and personality traits. The study [2] claimed that one's name and their personality are correlated and "personality" is an important factor in the human resource management. The literature [3] utilized Fo-Guang University students as the study objects to explore the connection between the name numerology and an individual's interpersonal relationships. This study applies the five elements of the name numerology in analyzing an individual's interpersonal relationships and evaluating the affinity accuracy of the interpersonal relationship between consultants and students. The reference [4] applied the characteristics of the five elements into analyzing a child's personality to enhance children's autonomy and concentration capability. The research [5] described the significance and the characteristics of German's name. The paper [6] investigated whether patients have different magnetic fields or they can be

stimulated by calling their names. In addition, the author also proposed the related research which applied information technology in analyzing five-element attributes of one's name for enhancing school counseling quality [7].

In the reviewing some references related to the one's birth date called Bazi numerology, the literatures [8-12] have studied Bazi numerology of inherent five-element characteristics including Gold, Wood, Water, Fire and Soil in the influence on an individual personality trait. In the reference [8], the feasibility and the impact of using Bazi numerology and five-element characteristics to study personality traits and interpersonal relationships are discussed. As for the reference [9], the special features of the five-element characteristics have adopted to enhance the concentration and autonomy of the children. The reference [10] applied the numerology and astrology in the current technical education. The study [11] utilized the psychological phenomenon of the numerology inquirer to explore a person's inner world. The literature [12] is the author's previous research which applied birth date in human resource management for an educational institution.

UNITY has many powerful built-in features such as materials and shader, rendering, lighting, physics, animations, audio/video, the advanced graphics support and powerful UI-development tools [13]. The literatures [14-16] are the references applying UNITY tool in the educational field. The reference [14] is the teaching tool for learning UNITY game engine tutorials effectively and efficiently. The study [15] applied UNITY to create effective tools for learning computer science and engineering. The research [16] designed a multi-player adventure education game with motion sensing. In this research, players can immerse in the collaborative activities and all the collaborative gaming processes will be recorded by computers and observations conducted by researchers to understand participants' social behaviors. The literatures [17-18] are the references applying UNITY tool in the game development. The study [17] proposed a game called Seeker to improve users' cognitive abilities which are challenged for resource management and decision making while solving different puzzles. The research [18] designed a 2D game which requests players to predict the actions according to players' memory. That means a player needs to remember the role's

regulation and predict the next move, which could allow users to have brainstorming while playing a game.

Nowadays, although there has been a lot of specific animation game applications developed, the educational entertainment based game applications are not yet widely used in school consultative environment. By considering an individual with his/her own uniqueness and different growth background, a counseling staff needs a variety of considerations while making an objective assessment. Therefore, this study continues the authors' previous research [19] on decoding one's name and birth date (Bazi) into different five-element characteristics to discover one's inherent personal features and their interpersonal relationships. The proposed approach also utilizes 52 inducing cards coupled with a serial of questions for consultative counselors or teachers in the student counseling [20]. These 52 cards are used as the primary materials in designing animation scenes by applying UNITY 3D software to create interactive user interfaces to be an interactive- and interesting-oriented consultative learning tool.

In the following, the proposed self-inducing interactive animation technology is described in Section 2. The experimental results are shown in Section 3. Finally, the conclusions are summarized in Section 4.

2. Decoding Five Elements of the Name and Bazi

Figure 1 shows the schematic diagram of matching the appropriate counseling personnel to the student, which is based on analyzing one's name and Bazi into the form of five-element characteristics. As shown in Figure 1, the counseling department is required to input the student's name and their Bazi respectively. The system decodes the inputs and then outputs the results of the decoded person's name and Bazi as well as the result of the matched appropriate counseling personnel to the student. Table 1 shows the activations, contradictions, and similarities of five-element characteristics. In this study, a user can utilize the contradictions, activations and similarities of five-element characteristics to figure out one's personality and their interpersonal relationships. The principles of decoding the name and Bazi as well as analyzing the five-element characteristics of the name and Bazi are described as follows.
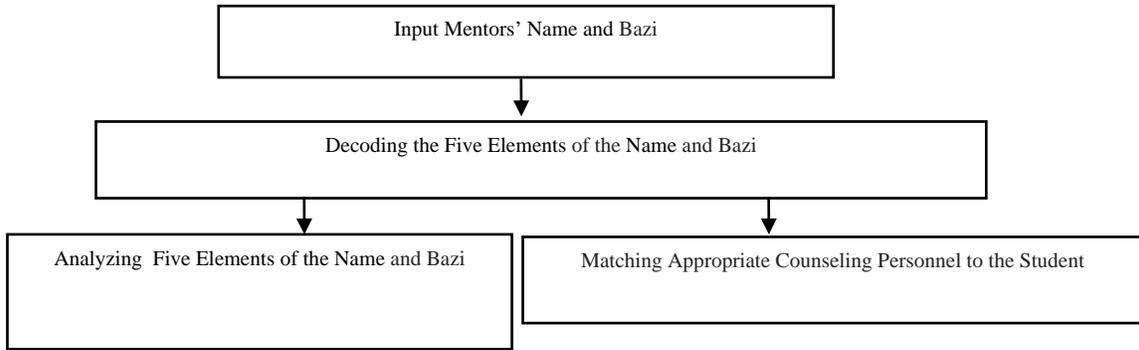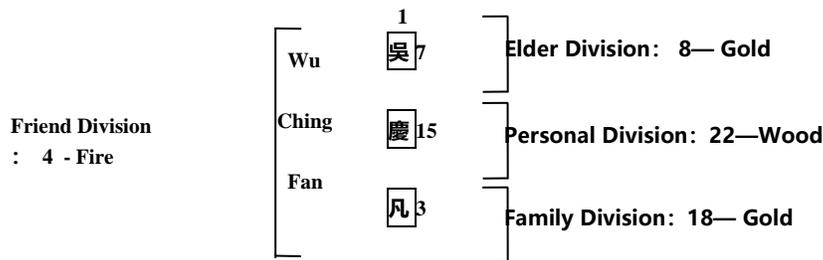
```
┌─────────────────────────────────────────────┐
│          Input Mentors' Name and Bazi        │
└─────────────────────────────────────────────┘
                      │
                      ▼
┌─────────────────────────────────────────────┐
│    Decoding the Five Elements of the Name    │
│                 and Bazi                     │
└─────────────────────────────────────────────┘
           │                       │
           ▼                       ▼
┌──────────────────────┐  ┌─────────────────────────────┐
│ Analyzing Five       │  │ Matching Appropriate        │
│ Elements of the Name │  │ Counseling Personnel to     │
│ and Bazi             │  │ the Student                 │
└──────────────────────┘  └─────────────────────────────┘
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Figure 1. Schematic diagram of matching the appropriate counseling personnel to the student.

2.1. Decoding Five Elements of the Name

Figure 2 shows the results of analyzing five elements of the name called "Wu, Ching-Fan" in Chinese. In Figure 2, the name of "Wu, Ching-Fan" can be subdivided into four divisions: Elder, Personal, Family, and Friend divisions, where Personal division means "I", Wu, Ching-Fan himself. A counselor can figure out his personality by knowing the five-element attribute of the personal division. In addition, a counselor can find out his interpersonal relationship among elders, families, and friends by understanding the five-element attributes of the Elder, Family, and Friend divisions, respectively.

```
                                1
                                ┌─
              Wu               吳 7    Elder Division： 8— Gold
                                └─
 Friend Division
   ： 4 - Fire  Ching          慶 15   Personal Division： 22—Wood

              Fan
                               凡 3    Family Division： 18— Gold
```

┌───┐
│ Personality Attributes (wood)：   │
│ — With patience, persistence and coherent thoughts. │
│ The relationship between Personal(I) and elder：   │
│ — Contradictions： Elders easily ask me to do   │
│   something and make me feel the pressure.   │
│ The relationship between Personal (I) and Family：   │
│ — Contradictions： Family easily ask me to do   │
│   something and make me feel the pressure.   │
│ The relationship between Personal (I)與 Friend：   │
│ —Activations： I like to do something for my friends │
│   or help them sincerely.   │
│   │
└───┘

Figure 2. The results of analyzing the five elements of the name called "Wu Ching Fan" in Chinese.

Table 1. The activations, contradictions and similarities of five-element characteristics.

Relationships of Five-Elements		Characteristics
Activations	Wood－Fire Fire－Soil Soil－Gold Gold－Water Water－Wood	An individual would be glad to pay their enthusiasm or help people.
Contradictions	Wood－Soil Soil－Water Water－Fire Fire－Gold Gold－Wood	An individual would give people pressure or burden potentially.
Similarities	Wood－Wood Fire－Fire Soil－Soil Gold－Gold Water－ Water	An individual would respect for people and get together in harmony.

2.2. Decoding Five Elements of the Bazi

Bazi, representing a person's birth date, is composed of four columns including year, month, day, and time columns in which each column includes a pair of the word in the format of (Character, Zodiac Animal). Generally, the character of the Bazi includes ten attributes named A, B, C, D, E, F, G, H, I, and J. The zodiac animals of the Bazi are such as Rat, Ox, Tiger, Rabbit, Dragon, Snake, Horse, Goat, Monkey, Rooster, Dog, and Pig, respectively. Table 2 gives the relationship between the character and the zodiac animal. As shown in Table 2, each character and zodiac animal of a pair of the word has their five elements named Wood, Fire, Soil, Gold, and Water. For examples, A and B are the five elements of the Wood; C and D are the five elements of the Fire; E and F are the five elements of the Soil, G and H are the five elements of the Gold; and I and J are the five elements of the Water. As for the zodiac animals, tiger and rabbit are the five elements of the Wood; snake and horse are the five elements of the Fire; ox, dragon, goat, and dog are the five elements of the Soil; monkey and rooster are the five elements of the Gold; and rat and pig are the five elements of the Water.

Table 2. The relationship between the character and the

Characters	Zodiac Animals
Wood (A, B)	Tiger, Rabbit
Fire (C, D)	Snake, Horse
Soil (E,F,G,H)	Ox, Dragon, Goat, Dog
Gold (I,J)	Monkey, Rooste
Water (K,L)	Rat, Pig

2.3. Matching the Appropriate Counseling Personnel to the Student

　　In order to help the students adapting the people, things, classmates and school environment comfortably as well as to enhance the efficiency of counseling works, finding the appropriate counseling personnel to a student is very important. In the following, two conditions for finding better candidates and matching an appropriate counseling personnel to a student are described in which an example is analyzed specifically.

(1)Searching the counselor's five-element attributes of the "personal and family" and "personal and elder" divisions is in the condition of activation or similarity.

(2)Searching the counselor's and the student's five-element attributes of the personal division are in the condition of activation or similarity.

<Example> If a student's five-element attribute of the personal division is "wood", the possible candidate of counselor can be matched as described in the following.

(1) If the counselor's personal division is "fire", the student can coherent with the counselor and agree the counselor's suggestions.

(2) If the counselor's personal division is "wood", the relationship of the counselor and the student are like the friends.

(3) If the counselor's personal division is "water", the counselor would actively care about the student and help the student sincerely.

(4) If the counselor's personal division is "earth" or "gold", this scenario should be avoided because they are in contradictions and conflicts for each other.

3. Interactive Animation System

　　Figure 3 illustrates the block diagram of the proposed interactive animation system, which includes four parts: planning interactive user interface, picturing the 52 idiom/allusion cards, designing animation scenes, and programming interactive controls. Figure 4 shows the user interface interaction structure of selecting different idiom/allusion cards with their corresponding explanations. Each part of the proposed interactive animation system is described in the following.
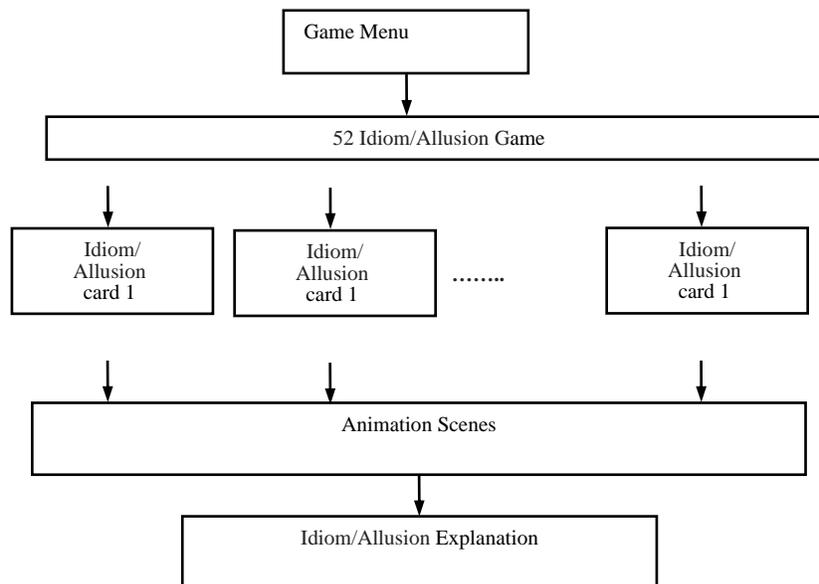

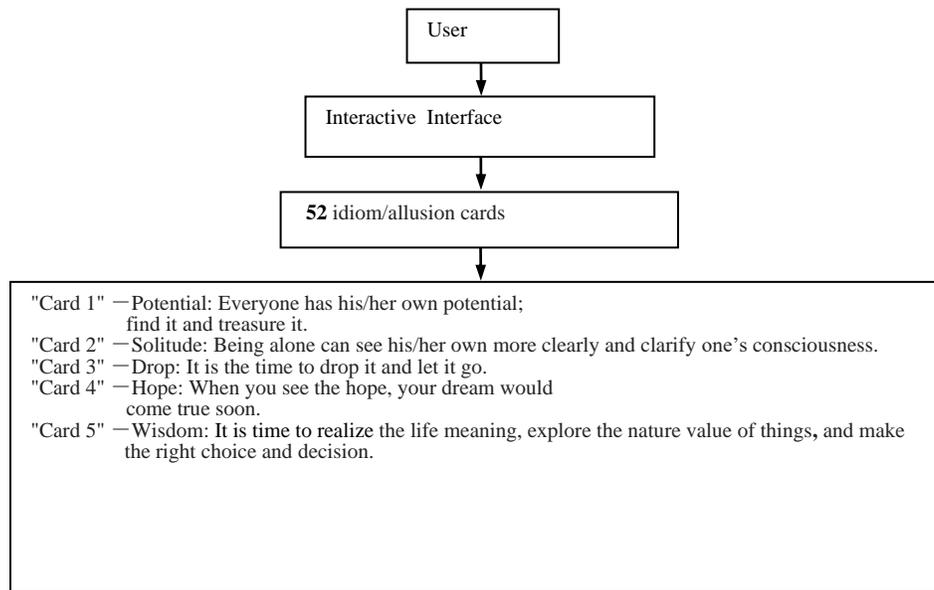Figure 3. Block diagram of the proposed interactive animation system.

Figure 4. User interface interaction structure of different idiom/allusion cards with their corresponding explanations.

3.1. Planning Interactive User Interface

In this paper, three layers of interactive user interfaces are planned. First layer of interactive user interface is the system main menu which is the start menu allowing a user accessing the proposed game-based self-inducing interactive animation school counseling system. In the system main menu, there are some basic options for users to choose, such as starting a new game, calculating the score, choosing different idiom/allusion cards, and the exit of the system. In the second layer of the interactive user interface, there are 52 options of the idiom/allusion game menu and a user can choose different cards via this submenu. As for the third layer, a user can find each card's animation game and its explanation.

3.2. Picturing the 52 Idiom/Allusion Cards

Figure 5 gives four examples of idiom/allusion cards' pictures. They symbolize potential, solitude, drop, and hope. As shown in Figure 5(a), card 1 indicates "Potential" which means everyone has his/her own potential and one should find it and treasure it. Figure 5 (b) named card 2 denotes "Solitude" which means that being alone can see his/her own more clearly and clarify one's consciousness. Figure 5 (c) named card 3 represents "Drop" which means that it is the time to drop it and let it go. Figure 5 (d) named card 4 shows "Hope" which means that when you see the hope, your dream would come true soon.

3.3. Designing the Animation Scenes

The design of the animation scenes are based on the original 52 idiom/allusion cards' pictures. According to the indications of 52 cards, different animation scenes are designed. In this study, the design of the interactive animation control mainly uses C# programming language to execute mouse, keyboard, and roles driven such as switching different menus and scenes as well as activating different animation scenes, visual art and sound effects. For instance, the animation scene for the "Drop" card is something falling down from a person's hand. In addition, the animation scene for the "The fact is in front of us" card can be designed by blinking one's eyes and flipping four coins (because "forty" homophone "fact" in Chinese).

4. Experimental Results

In this study, the proposed self-inducing interactive animation technology based on one's name and birth date numerology for school counseling system is implemented by using UNITY 3D software to create interactive user interface, installing the 52 idiom/allusion cards, designing the animation scenes, and programming the interactive controls through C# programming language.

In this paper, one's inherent personal features is presented as different five-element

characteristics, named Gold, Wood, Water, Fire and Soil. The proposed technology is implemented by using Visual Basic programming language to create interactive user friendly interface for the name and Bazi analysis. The proposed approach mainly applies the activations, contradictions, and similarities among different five-element characteristics in the name and Bazi for an individual. Figure 6 and Figure 7 give the practical test results with user-friendly input and output interfaces in Chinese characters. Figure 6 is the input interface for a user to key in his/her Chinese name; Figure 7 is the analytical interface which decodes the characteristics of the five elements of the input name. Figure 8 is the input interface for a user to key in his/her Bazi in English; Figure 9 is the

output interface which shows one's personality attributes and the suggestions on matching the appropriate counseling personnel to the student. Figure 10 shows the layout of the game-based main menu including new game, high scores, options, and exit four options. Figure 11 shows the animation design for the card -- "The fact is in front of us" where the pronunciation of forty in Chinese is the "fact". According to the experimental results, this study provides a user friendly interface; a user can access the system easily; the output is also easy to understand. The proposed approach allows users adding/designing a new idiom/allusion card conveniently, thereby supporting with the characteristics of flexibility and adaptability.
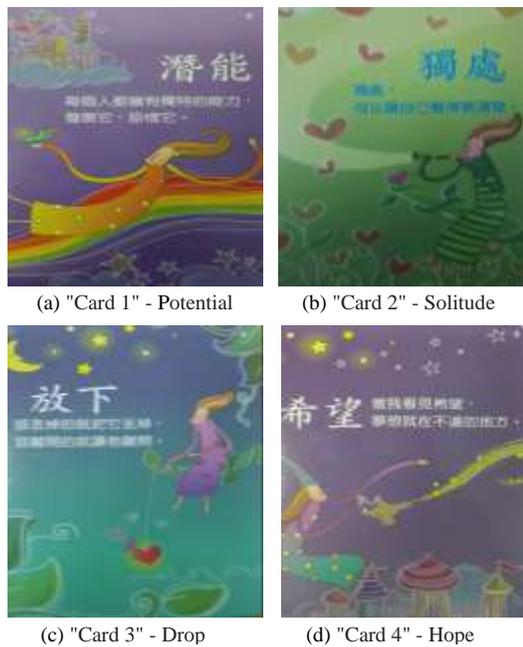
(a) "Card 1" - Potential	(b) "Card 2" - Solitude
(c) "Card 3" - Drop	(d) "Card 4" - Hope

Figure 5. Four typical idiom/allusion cards'

Input the Name

姓		Last Name
名一		First Name 1
名二		First Name 2
Back	**Next**	**Exit**
回上一頁	確認	離開系統

Figure 6. The input interface for the user key in their Chinese

Five-Element Characteristic Analysis

Last Name   Elders
First Name 1   Families
First Name 2   Personal
                                              Friends
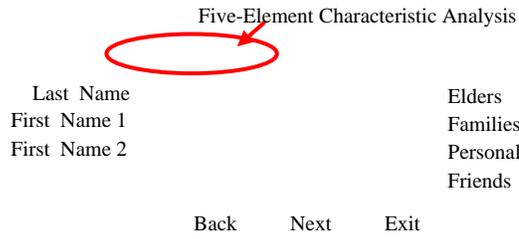
Back   Next   Exit

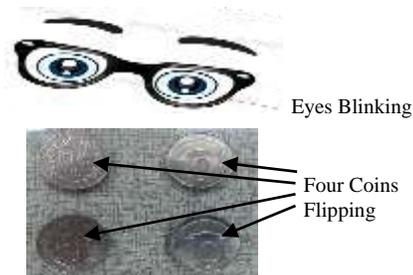Figure 7. Decoding characteristics of the name's five

Figure 8. The input interface for the user key in their

Figure 9. Matching the appropriate counseling personnel to the

Figure 10 . Layout of game-based main

Figure 11. Animation design for the card –
"The fact is in front of us".

5. Conclusions and Discussions

This paper proposes a self-inducing interactive animation technology with the name and birth date numerology to increase school counseling quality. The proposed technology contains three main subjects including analyzing one's name and birth date, creating the inducing cards, and constructing the interactive user interfaces. According to the implementing results, the method proposed in this paper can provide three contributions. Firstly, it can be interactive- and interesting-oriented consultative learning tool. Secondly, it can help the counseling personnel to be students' triggers, inducers and motivators instead of educators and commentators. Thirdly, it can help students to understand their self-consciousness and make own choice after clarifying their thoughts. Conclusively, the proposed approach could support an educational counseling department to find appropriate counseling personnel to assist the students efficiently, solve the problem timely, and evaluate the circumstance and situation correctively.

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