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University English multimode teaching discussion under intersexuality theory view

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ABSTRACT

Multimode university English education is a kind of multiple communications mediabased educational pattern, it not only greatly promotes students' interests in English learning, but also promotes English ability from listening, speaking, reading and writing each aspect. The paper discusses multimode teaching application in university English under intersexuality theory view, and evaluates university English multimode from multimode English facility construction, multimode English teachers cultivation, multimode curriculum cultivation and other aspects. By evaluation results, it shows multimode English has good development trend, and fits for university English education development and cultivation.

KEYWORDS

University English; Multimode teaching; Fuzzy comprehensive evaluation; Intersexuality theory.

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INTRODUCTION

As early as 20th century, western scholars Kress and VanLeeuween provided definite concepts on multimode discourse theory, which was also implementing exchanging and representation by multiple kinds of medias, however media included symbol, action, language and others multiple expression modes that was also by virtue of ears, mouth, hands and other expressive tools as media to pass on.

Due to human activities tend to be frequently, only limited in language communication was far from perfect, and people have already learnt multiple media exchanging and communication ways let people life to be more interesting. The multimode development and interaction is called multimode essence.

According to voices and language, the paper divides multimode discourse analysis theory media system into language media and non-language media. We carry on information transmitting and supplement by language media and non-language media. As TABLE 1 show.

			Tone	
	Language	Semi-language	Acoustics	
			Layout	
	Language		Font	
		Pure language	Voice	
			Text	
			Action (gestures)	
			Countenance	Expression
		Action (ge Countenan Body limbs		Eyes contact
Multi-media discourse media system				Five sense organs
				Gesture
	Non-language		limbs	Posture
				Swing
				PPT
				Acoustics
		Non physical	Tool	Network
		Non-physical		Laboratory
				Interpret room
			Environment	

TABLE 1 : Language and non-language multimode expression

As TABLE 2 shows, the paper gets multimode discourse affiliation relationship in form and relationships.

FUZZY EVALUATION MODEL ESTABLISHMENT

Fuzzy comprehensive evaluation model

Fuzzy comprehensive evaluation model fits for fuzzy computation that multiple factors are uncertain, the paper utilizes fuzzy comprehensive evaluation, and steps are as following: At first, the paper establishes factor set U:

 $U = \begin{pmatrix} U_1 & U_2 & \cdots & U_k \end{pmatrix}$

Secondly, establish factor set V (evaluation set),

		Language	Vocabulary Grammar	
	Form	Vision	Graphic shape	
		Sound sensation	Acoustic shape	
		Feeling	feeling shape	
			reening granninar	Stand out
			Reinforcement	Come here
Multimode discourse form and		Complementary	Reministerment	Expansion
relationships				Coordinate
			Nonreinforcement	Crossover
				Unite
	Relationships			Redundancy
	reactionships		Overlapping	Offset
				Exclude
		Non- complementary		Whole and part
			Insourcing	Abstract and concrete
			Language environment	Independent
			interaction	Rely on

TABLE 2 : Multimode discourse form and relationships

The paper establishes evaluation matrix fuzzy mapping from U to V, obtained fuzzy relation as following matrix show, :

 $R = \begin{bmatrix} r_{11} & r_{12} & \cdots & r_{1n} \\ r_{21} & r_{22} & \cdots & r_{2n} \\ \vdots & \vdots & & \vdots \\ r_{m1} & r_{m2} & \cdots & r_{mn} \end{bmatrix}$

The paper establishes weight set, $A = (a_1, a_2, \dots, a_n)$, it meets conditions:

$$\sum_{i=1}^n a_i = 1 \quad a_i \ge 0$$

Fuzzy relation R every line will reflect the line influence factors to object judgment degree, meanwhile, R every column will reflect the column influence factors to object judgment degree.

$$\sum_{i=1}^{n} r_{ij} \qquad j = 1, 2, 3, \cdots, m$$

Secondly the paper carries on following computation according to fuzzy comprehensive evaluation:

 $B = A \cdot R$

$$= (a_1, a_2, a_3, \dots, a_n) \cdot \begin{bmatrix} r_{11} & r_{12} & \cdots & r_{1n} \\ r_{21} & r_{22} & \cdots & r_{2n} \\ \vdots & \vdots & & \vdots \\ r_{m1} & r_{m2} & \cdots & r_{mn} \end{bmatrix}$$
$$= (b_1, b_2, b_3, \dots, b_n)$$

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In V, fuzzy combination is evaluation set B. To sum up, actually fuzzy comprehensive evaluation obtained multimode system simple change model is as Figure 1 shows:



Figure 1 : Simple change model

According to Figure 1 marked contents, it gets fuzzy comprehensive evaluation change model, and can establish corresponding every factor grade evaluation transformation function, evaluation factors u1, u2, u3, u4, u5 membership functions can be expressed as following formula (1), (2), (3) shows:

$$u_{v1}(u_1) = \begin{cases} 0.5(1 + \frac{u_i - k_1}{u_i - k_2}), & u_i \ge k_1 \\ 0.5(1 - \frac{k_1 - u_i}{k_1 - k_2}), & k_2 \le u_i < k_1 \\ 0 & , & u_i < k_2 \end{cases}$$
(1)

$$u_{v2}(u_{1}) = \begin{cases} 0.5(1 - \frac{u_{i} - k_{1}}{u_{i} - k_{2}}), & u_{i} \ge k_{1} \\ 0.5(1 + \frac{k_{1} - u_{i}}{k_{1} - k_{2}}), & k_{2} \le u_{i} < k_{1} \\ 0.5(1 - \frac{u_{i} - k_{3}}{k_{2} - k_{3}}), & k_{3} \le u_{i} < k_{2} \\ 0.5(1 - \frac{k_{3} - u_{i}}{k_{2} - u_{i}}), & u_{i} < k_{3} \end{cases}$$

$$(2)$$

$$u_{v1}(u_1) = \begin{cases} 0, & u_i \ge k_2 \\ 0.5(1 - \frac{k_1 - u_i}{k_2 - k_3}), & k_3 \le u_i < k_2 \\ 0.5(1 + \frac{k_3 - u_i}{k_2 - u_i}), & u_i < k_3 \end{cases}$$
(3)

Combine with Fuzzy evaluation model to make multimode teaching evaluation on university English

By above model principle established factor set U, among them $U = (U_1 \ U_2 \ U_3 \ U_4)$. Among them multimode English facility construction U_1 , multimode English teachers cultivation U_2 , multimode curriculum cultivation U_3 , others U_4 , it gets 3. The paper establishes small factors sets in four important factor sets.

Multimode English	Multimode English Multimode English		Others U.	
facility construction U_1	teachers' cultivation U_2	cultivation U_3		
Campus facility	Multimode English	Multimode English	Education observation and	
introduction u_{11}	Teachers cultivation u_{21}	contests u_{31}	communication u_{41}	
Campus facility	Multimode English faculty		Multimode English education	
maintenance u_{12}	cultivation u_{22}	Extracurricular activity u_{32}	development u_{42}	
	Advanced teaching pattern	Multimode English speech	Multimode English	
Test flow construction u_{13}	introduction u_{23}	<i>u</i> ₃₃	undertakings revitalization	
	23	55	u_{43}	
Daily facilities	Multimode English staff	Multimode English		
construction u_{14}	cultivation expenses u_{24}	entertainment pattern u_{34}		

TABLE 3 : Chinese university English multi-mode teaching evaluation indicator system

By TABLE 3 listed factors, it gets evaluation set.

$$U_{1} = \{u_{11}, u_{12}, u_{13}, u_{14}\}$$
$$U_{2} = \{u_{21}, u_{22}, u_{23}, u_{24}, u_{25}\}$$
$$U_{3} = \{u_{31}, u_{32}, u_{33}\}$$
$$U_{4} = \{u_{41}, u_{42}, u_{43}, u_{44}\}$$

By collecting data and analyzing, it gets four factors importance degree ranking statistics as TABLE 4 shows.

Classification	Rank 1	Rank 2	Rank 3	Rank 4
Campus fitness facility U_1	23	7	4	0
School sports staff cultivation U_2	0	0	15	18
Sports curriculum organization cultivation U_3	0	9	13	12
Others U_4	3	21	9	0

TABLE 4 : Four factors importance degree ranking statistics

By TABLE 2 sorting, it gets multimode English facility construction U_1 , multimode English teachers cultivation U_2 , multimode curriculum cultivation U_3 , others U_4 , four aspects ranking matrix.

 $U_{2} = \{23, 7, 4, 0\}$ $U_{2} = \{7, 18, 8, 0\}$ $U_{3} = \{0, 9, 13, 12\}$ $U_{4} = \{3, 0, 9, 21\}$

Obtained weighted vector from rank 1 to rank 2:

$$\beta = \{\beta_1, \beta_2, \beta_3, \beta_4\} = \{0.4, 0.3, 0.2, 0.1\}$$
$$U_i^* = U_i \cdot \beta^T$$
$$U_1^* = 14, U_2^* = 9.4, U_3^* = 4, U_4^* = 5.6$$

The paper takes normalization processing:

$$U_1^* = 0.35, U_2^* = 0.3, U_3^* = 0.2, U_4^* = 0.15$$

It gets:

$$A = (0.35 \quad 0.3 \quad 0.2 \quad 0.15)$$

The paper establishes remarks membership, as TABLE 5 show.

Engling them man	Set scores interval				
Evaluation way	0-60	60-80	80-90	90-100	
Very good	0	0	0.05	0.95	
Good	0	0.05	0.9	0.05	
Normal	0.05	0.9	0.05	0	

TABLE 5 : Remarks membership

The paper gets TABLE 6 by Chinese university English multimode teaching cultivation's multimode English facility construction U_1 , multimode English teachers cultivation U_2 , multimode curriculum cultivation U_3 , others U_4 four aspects each indicator obtained evaluation.

TABLE 6: Chinese university English multimode teaching each item indicator obtained evaluation value

Each layer indicator	Evaluation value	Each layer indicator	Evaluation value
Campus facility introduction u_{11}	Normal	Multimode English contests \mathcal{U}_{31}	Good
Campus facility maintenance u_{12}	Normal	Extracurricular activity u_{32}	Good
Test flow construction u_{13}	Normal	Multimode English speech U_{33}	Good
Daily facilities construction U_{14}	Normal	Multimode English entertainment pattern \mathcal{U}_{34}	Normal
Facilities changing U_{15}	Normal	Education observation and communication \mathcal{U}_{41}	Good
Multimode English Teachers cultivation u_{21}	Very good	Multimode English education development $\mathcal{U}_{42}^{}$	Normal
Multimode English faculty cultivation \mathcal{U}_{22}	Very good	Multimode English undertakings revitalization \mathcal{U}_{43}	Normal
Advanced teaching pattern introduction U_{23}	Good		
Multimode English staff cultivation expenses U_{24}	Good		

By above model, it gets single layer indicator weight factor fuzzy set is:

$$U_{1}^{*} = \{U_{11}, U_{12}, U_{13}, U_{14}, U_{15}\} = \{0.25 \ 0.25 \ 0.2 \ 0.15 \ 0.15\}$$
$$U_{2}^{*} = \{U_{21}, U_{22}, U_{23}, U_{24}\} = \{0.54 \ 0.1 \ 0.24 \ 0.14\}$$
$$U_{1}^{*} = \{U_{31}, U_{32}, U_{33}, U_{34}\} = \{0.4 \ 0.3 \ 0.1 \ 0.2\}$$
$$U_{1}^{*} = \{U_{41}, U_{42}, U_{43}\} = \{0.3 \ 0.4 \ 0.3\}$$

By TABLE 5, and combine with TABLE 3 remarks membership, the paper gets multimode English facility construction U_1 , multimode English teachers cultivation U_2 , multimode curriculum cultivation U_3 , others U_4 each aspect evaluation set:

 $\text{Others}_{U_4} = \begin{pmatrix} 0 & 0 & 0.05 & 0.95 \\ 0 & 0.05 & 0.9 & 0.05 \\ 0 & 0.05 & 0.9 & 0.05 \end{pmatrix}$

Carry on following computation on above evaluation set:

$$B_i = A_i \cdot R_i$$

Make normalization processing with obtained B_i , it gets fuzzy evaluation matrix:

	(B_1)		0.07	0.26	0.13	0.42
$\bar{B} = \begin{vmatrix} B_2 \\ B_3 \end{vmatrix} =$	0	0.15	0.76	0.54		
	=	0.14	0.24	0.21	0.17	
	$\left(B_{4} \right)$		0.14	0.2	0.3	0.36)

It gets comprehensive evaluation value: It gets comprehensive evaluation value: $_{Z=U^* \cdot B=(0.29 \quad 0.32 \quad 0.21 \quad 0.18)}$

CONCLUSION

The paper carries on fuzzy comprehensive evaluation on university English multimode teaching status, because 0.32 > 0.29 > 0.21 > 0.18, it shows located indicator range is in score interval of 80-90, so it can show university English multimode teaching evaluation index is lower, it has good development tendency.

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