

Study on Decoding process

Costruction of Interaction matrix

2018

seef Altested Neelam shorms

Study on Decoding process Costruction of Interaction matrix Neelam Sharma\*, Dr. Mukesh KLumar Yadav, Singhania University, Rajasthan

#### Abstract

After encoding the classroom events into ten category system 10×10 matrix table is prepared for decoding the classroom verbal behaviour. The interaction matrix table consists of 10 rows and 10 columns.

The generalized sequence of the pupil teacher interaction can be estimated in this matrix table. It indicates what events proceed and what follow. The two continuous categories from a pair, this, a tally is marked in a particular cell. The first number in the pair indicates the row and second number show the column. For example (10-6) pair would be shown by a tally in the cell formed by row 10 and column 6 thus each number in a series once becomes row and once becomes columns, the procedure is followed for preparing the matrix, after making the tallies for series, and each corresponding row and column total should be equal.

Key words: encoding, interaction matrix, sequence, corresponding.Introduction

Monastic orders of education under the supervision of a guru was a flavored form of education for the nobility in ancient India. The knowledge in these orders was often related to the tasks a section of the society had to perform. The priest class, the Brahmins were imparted knowledge of religion, philosophy, and other ancillary branches while the warrior class, the Kshatriya, were trained in the various aspects of warfare. The business class, the Vaishya, were taught their trade and the working class of the Shudras was generally deprived of educational advantages. The book of laws, the Manuscript, and the treatise on statecraft the Arthashastra were among the influential works of this era which reflect the outlook and understanding of the world at the time.

Secular Buddhist institutions cropped up along with monasteries. These instinutions imparted practical education, e.g. medicine. A number of urban learning centers became increasingly visible from the period between 200 BCE to 400 CE. The important urban centers of learning were Taxtla (in modern day Haryana) and Nalanda. among others. These institutions systematically imparted knowledge and attracted a number of foreign students to study topics such as Buddhist literature, logic, grammar, etc.

### Review of Literature

N. Vasaki (1990) found those women of different occupations and age levels displayed favourable attitude towards women's education.

S. Ratnaveni (1991) identified the factors that constrain women education in Andhra Pradesh. This study constysed the impact of good socioeconomic background factors on the education of women and recommends very strongly more research on education and employment status of women and provisions of more educational facilities and job oriented courses, both through

Neelam Sharma

formal and non-formal streams, with a greater role for distance education and open a niversities. U. Nayar et al., (1992) found in a major sample study of 3000 urban and rural households that parents have substantially lower educational and occupational aspirations for daughters as compare to sons and do not subscribe to equality between the sexes. Parents are unwilling to invest on the education of daughters because they feel they are temporary members of the household.

Iswar Singh (1993) also studied the growth of education in Haryana and found that Haryana region lagged behind in the field of education. There was deep dearth of school teachers and necessary facilities.

Urmilla (1994) too studied the development of women education and its main hurdles. Following are her findings:

- The researcher found that after formation of Haryana, it was satisfactory improvement in primary education. In 1966 number of girls in primary schools were 257 which became 548 in 1985.
- Till 1990-91 number of girls students reached up to 915269. In between 1991 total number of girl students were 28% of the total number of students which ultimately reached upto 44.37%

Ram Kumar Singh (1995) studied the female literary in Rohtak District. The objectives of the study have to study the female literacy in various

Suchita Dass (1997) identified in her studies "Impact of Free Education for Women in District Sonepat" the attitudes towards women education in the rural areas and also made suggestions for the improvement of women education.

www.eduera.com

Tiwari and Verma (2001) in their studies of women education found that in modern educational system, the participation of girls in vocational, higher and technical educational institutions is very low. It is painful to note that such is the dismissal picture of women's education after 56 years of independence.

R. Sudhakar (2002) in her studies 'Education development and changes in women education' found that women's education has been a vexed problem for a very long time. Women education is a foundation stone, since upon her rests mainly growth of a child into a man/male and female who will become an asset for his/her country. Women education will never reach great heights, in a predominantly society, the males are not educated to look at women's education with interest and give it unstived support.

#### Material and Method

Table 1 Flanders's Interaction Analysis System Observation-2

Name of the Pupil Teacher: Deepika

Subject: English Duration: 20 Minutes Encoding

After encoding the classroom events into ten category system 10×10 matrix table is prepared

(a) Construction of Interaction Matrix Tables

for decoding the classroom verbal behaviour. The interaction matrix table consists of 10 rows and 10 columns.

The generalized sequence of the pupil teacher interaction can be estimated to this matrix table. It indicates what events proceed and what follow. The two continuous categories from a pair, this, a tally is marked in a particular cell. The first number in the pair indicates the row and second number show the column. For example (10-6) pair would be shown by a fally in the cell formed by row 10 and column 6 thus each number in a series once becomes row and once becomes columns, the precedure is followed for preparing the matrix, after making the tallies for series, and each corresponding row and column total should be equal.

> Class: X Topic: Articles Observer: Neelam Sharma

5, 5, 5, 6, 6, 5, 5, 5, 5, 5, 5, 5, 5, 10, 5, 6, 6, 2, 4, 8, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 4, 8, 9, 3, 2, 4, 7, 3, 2, 4, 2, 4, 8, 2, 5, 5, 5, 6, 5, 3, 8

Decoding 5, 5, 3, 5, 5, 6, 6, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 2, 4, 8, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 4, 8, 9, 3, 2, 4, 7, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 5, 5, 4, 8, 2, 4, 8, 2, 4, 8, 2, 7, 5, 5, 5, 5, 5, 5, 5, 5, 4, 8, 7, 6, 5, 5, 5, 5, 5, 5, 5, 9, 4, 8, 2, 4, 8, 2, 5, 5, 5, 6, 5, 5, 5, 10

S. No.	Pair	S. No.	Pair	S. No.	Pair	S. No.	Pair	S. No.	Pair
1	10, 4	8	5,5	15	6,8	22	5,5	29	8,8
2	4.8	9	5.5	16	8, 8	23	5,5	30	8, 8
3	8.3	10	5,5	17	8.8	24	5,5	31	8,8
4	3, 2	11	5.5	18	8, 8	25	5, 5	32	8,7
5	2, 5	12	5.5	19	8.8	26	5.8	33	7.8
6	5,5	13	5,5	20	8, 7	27	8.8	34	8,8
7	5, 5	14	5,6	21	7,5	28	8, 8	35	8, 8

Neelam Sharma

S. No.	Pair	S. No.	Pair	S. No.	Pair	S. No.	Pair	S. No.	Pair
36	8, 8	89	5, 5	142	8,2	195	6,5	248	2, 4
37	8, 8	90	5,5	143	2,5	196	5,5	249	4.8
38	8, 2	91	5, 5	144	5,5	197	5.5	250	8,8
39	2,4	92	5.5	145	5.5	198	5.5	251	8, 2
40	4, 8	93	5, 6	146	5,5	199	5,5	252	2,4
41	8, 8	94	6,5	147	5.5	200	5,5	253	4,5
42	8, 8	95	5.5	148	5.5	201	5.5	254	5, 5
43	8, 7	96	5,5	149	5,5	202	5,5	255	5,9
44	7.7	97	5,5	150	5.5	203	5,5	256	9,9
45	7, 8	98	5.5	151	5, 5	204	5, 5	257	9,3
46	8, 8	99	5.5	152	5.5	205	5, 5	258	3.6
47	8.7	100	5,5	153	5,6	206	5.7	259	6, 6
48	7, 8	101	9,9	154	6, 10	207	7.7	260	6, 5
49	8,8	102	9, 3	155	10, 7	208	7,6	261	5, 5
50	8,8	103	3,3	156	7.6	209	6.5	262	5,5
51	8,8	104	3,5	157	6,5	210	5, 5	263	3.5
52	8, 8	105	5,5	158	5.5	211	5,5	264	5,5
53	8, 8	106	5,5	159	5.5	212	5, 5	265	5.5
54	8, 8	107	5,5	160	5.5	213	5,5	266	3, 4
55	8, 7	108	5,5	161	5,5	214	5, 5	The second second	-
56	7.8	109	5,5	162	5.5	215	5.5	267	4, 8
57	8.8	110	5, 5	163	5.4	216	-	_	8, 2
58	8, 8	111	5,5	164	4, 8	217	5,5	269	2,5
59	8,8	112	5,5	165	8, 8	_	5, 4	270	5,5
50	8, 8	113	5,4	166	8, 9	218	4.8	271	5, 5
51	8, 7	114	14.8	167	9,3	219	8, 2	272	5,5
52	7, 7	115	8.2	168	3.3	221	2,4	273	5,5
53	7.8	116	2, 10	169	3.6	222	4.8	274	5,5
54	8, 8	117	10, 4	170			8, 8	275	5, 5
55	8, 8	118	4, 8	171	6,6	223	8, 2	276	5, 5
56	8, 8	119	2,4	172	5,5	224	2,4	277	5, 6
57	8,8	120	4, 8	The second second		225	4, 8	278	6, 7
58	8,8	121	8. 2	173	5, 5	226	8, 8	279	7,7
599	8, 8	122	2.3	174	5,5	227	8, 2	280	7, 6
0	8.8	123		175	5.5	228	2, 6	281	6,5
1	8.8	124	3, 4	176	3,5	229	6,6	282	5,5
2	8.8	125	4.8	177	5,5	230	6, 5	283	5, 5
13	8, 8	The second second	8, 2	178	5, 4	231	5, 5	284	5, 5
4	8, 8	126	2,4	170	4, 10	232	5, 5	285	5,5
5		127	4, 8	180	10, 4	233	5, 10	286	5,5
6	8.8	128	8, 2	181	4, 8	234	6, 5	287	5.5
7	8, 2	129	2,5	182	8, 2	235	5,5	288	5,5
8		130	5,5	183	2,3	236	5, 5	289	5, 5
9	2,3	131	5.5	184	3,4	237	5, 5	290	5, 5
0	3, 6	132	5,5	185	4,8	238	5, 5	291	5, 10
1	5, 5	133	5,5	186	8.2	239	5,5	292	10, 5
	5).5	134	5, 5	187	2, 3	240	5,5	293	5,5
2		135	5, 5	188	3,5	241	5,5	294	5, 5
3	5,5	136	5,3	189	5.5	242	5.5	295	5,5
4	5,5	137	5, 5	190	5.5	243	5, 5	296	5, 5
5	5,8	138	5,5	191	5, 5	244	5, 5	297	5.5
6	8, 5	139	5,4	192	5, 10	245	5, 4	298	5,4
7.	5, 5	140	4, 8	193	10, 6	246	4, 8	299	4, 8
8	5,5	141	8. 8	194	6,6	147	8, 2	300	8, 2

S. No.	Pair	S. No.	Pair
301	2.4	354	2, 4
302	4, 8	355	4, 8
303	8.2	356	8, 2
304	2,5	357	2,5
305	5,5	358	5,4
306	5,5	350	4, 8
307	5.5	360	8, 2
308	5,5	361	2.6
309	5,5	362	6,6
310	5,5	363	6,6
311	5,5	364	6, 4
312	5,5	365	
313	3,5	366	4, 8 8, 2
314	5,5	367	
315		-	2,5
316	5,5	368	5, 5
317	-	369	5,5
	8, 8	370	5.5
318	8, 2	371	5,5
319	2,4	372	5,5
320	4.8	373	5.6
321	8, 2	374	6.6
322	2,4	375	6.7
323	4,8	376	7,5
324	8,8	377	5.5
325	8, 2	378	5,9
326	2,4	379	9.9
327	4,4	380	9.3
328	4.8	381	3, 3
329	8,2	382	3,5
330	2.4	383	5.5
331 .	8,2	384	5.5
332	2,4	385	5, 5
333	4, 8	386	5,5
334	8.2	387	5.5
335	2.4	388	5,5
336	4.8	389	5.5
337	8, 2	390	5,4
338	2,4	391	4,8
339	4.8	392	8.2
340	8,8	393	8, 4
341	8,1	394	-
342	2.4	395	4.8
343	4,8	396	2, 5
344	8, 2	397	5,5
345	The second second		The property of
346		398	5, 6
347	4.4	399	6,5
348	4:8	400	5, 10
-	8, 2		
349	2,7		
350	Tat T		
351	7.4		
352	4,8		
352	0.75	77	

Neelam Sharma

www.eduera.com

Table 3 Observation Matrix Table

Category	1	2	3	4	5	6	7	8	9	10	Total
										100	0
2:			1	1111	(MH J.)		JIH		U.		19
3		mr	11		111	11	H	-			12
4:			-				i	THE REAL PROPERTY.			19
5				### ##	AND AND AND THE THE THE THE THE THE AND	1011 1G				MI I	222
6				11	THE JIH 1	IIII		11			18
7			1	1	2011		III	IIII		4	17
8		## H	#					100 100 100 100 100 100 100 100 100 100 100	6	6	77
9			HH II		1		1	MI MI III II	Ш	Q.	8
10:					In I	- 4		THE RESERVE	-	III	8
l'otal	0	19	12	19	222	18	17	77	8	8	400

S. No.	Behaviour ratios	Formulae	Result (%)
E	Teacher talk (TT)	$\sum_{N} f \left( \text{Column 1 to 7} \right) \times 100$ = 307/400 × 100	76.75
2.	Indirect leacher talk (TTT)	$\frac{\sum f \left( \text{Column 1 to 4} \right)}{N} \times 100$ = 85/400 × 100	21.25
	Direct teacher talk (DTT)	$\sum f \text{ (Column 5 to 7)} \times 100$ = 257/400 × 100	64.25
1	Pupii talk (PT)	$\sum_{S} f \left( \text{Column 8 to 9} \right) \times 100$ = 50/400 × 100	12.50
	Silence or confusion (SC)	$\frac{\sum f \left( \text{Column } 10 \right)}{N} \times 100$ = 8/400 × 100	2.00

### Conclusion

- 1 Govt, should give more importance to improve literacy rate in low literacy rate area of Mahendergarh.
- 2 Govt. of sindh and other agencies should run Literacy campaigns about the adult fiteracy in low literacy rate area of the north Haryana.
- 3 Media should play effective role to educate the parents about those attitudes that can effect positively the educational achievement of children.
- 4 Govt Schools should arrange teacher parent meetings to inform them about the progress of their children.
- 5 Parents should visit the school if school ealls them. To ignore the call of school or teacher is not

# References

6. Aggarwal, Y.P. (1992), "Statistical Method: Concepts, Applications and Computation" Sterling Publication Private Limited. Green Park Extension, New Delhi.

Neelam Sharma

www.eduera.com

 Ahmed, S. (1980). "Act of socio-cultural disadvantage on creative thinking". Journal of psychological researches, vol.— 24, No-2, pp96-102.

 Boden Margrate (2006). Mental retardants in Triplicate. Article available at http://www.sussex.ac.uk/cetlmailto:m.a.bo den@ sussex.ac.uk?

 Boden Margrate (1990). The creative mind. Available at http://lateralaction.com/article/mental retardantsandinnovation.

 Brar, S.5 (1987). "Development of Mental retardants In Relation To Intelligence antonse."

 Beckman PJ. Influence of selected child characteristics on stress in families of handicapped infants. Am J Ment Defic. 1983;88:150-6.

 Burden RL. Measuring the effects of stress on the mothers of handicapped infants: Must depression always follow? Child Care Health Dev. 1980;6:111–25.

 Cheak, J.E. (1970). An Analysis of Difference in Creative Ability between White and Negro Students, Public and Parochial Three Different Grade Levels and Male and Female, APA Publication System, Vol. 9, pp. 349-354.

 Doll EA, Vineland Social Maturity Scale.
 Manual of directions. Rev. ed. Circle Pines, MN: American Guidance Service; 1965.

 Gulati Sushma (2000). Teaching for creative Endeavour Journal of Indian Education Vol. 26 no. 3 pp 1-22

 Gupta A.K. (1980). Study of classroom Teaching behaviour and mental retardants light and life Publication. New Delhi.

 Hutton H.J. (1952). Mental in India. Bombay. Oxford University Press.

 Iha. M.L. (1973), Untouchability and Education. Meerut: Namita Publication.

 Kalbagh, Chetna, Women and Development, Volume 7, Discovery Publishing House

 Kapil, H.K. and Bhargav, S.P. (1989) Research Methods, Agra.  Kamat VV. A revision of the Binet scale for Indian children (Kanurese and Marathi speaking)
 Br J Edu Psychol. 1934;4:296–309.

 Maan, G.S. (1978). Value Patterns of Creative and Non Creative Students (a crosscultural study), PHD. Psy. Agra-university

 Mehdi, Baquer, Manuals, (1973). Verbal and Non-verbal Texts of Creative Thinking, Mrs. Qamar Fatima, Aligarh.

24. Mchdi. B. (1977): Montal returdants, Intelligence and Achievement: A Correlational study", Psychological Studies, Vol. 22, pp. 55-62.

 Misra, K.S. 1978, "Percaption of work-values by creating teachers" *Journal of Indian* education, vol.-4, No.-3, pp. 56-61.

 Mukherjee, R. (1992). "ESP for educational journalism: Dynamic for writing". Indian. Educational Review, Vol.-27, No.2, pp-28-39.

 Mukhopahbyay, K.K., chakrabarti, P.K. and kundu, R. (1990). "Creative Development of the children: effects pf parental sex, education and hobbies", Indian educational coview, vol.-25, No. 3, pp. 75-80.

 Parnes, S.J. and Brunelle, E.A. (1967). "The literature of mental retardants (part-1)", Journal of creative Behaviour, vol.-1, pp.-52-109.

 Ran Tongpaeng (2002). Strategy of Developing Mental retardants of University Student of Thailand DAVV. Indore.

30 Rather AR. (1985). Incidence of Dropout and Maladjustment among Students In Relation To Mental retardants and Social Structure of the School, PHD. Edu.Kashmir University.

 Sriniwas, M.N. (1970.) Mental in Modern India and Other Essays, Bombay: Asia Publishing House.

32. Wilson'L.M. & Corpus D.A.(sept.2001). The Effects of Roward Systems onacademic Performance. Middle School Journal. 33(1) pp.56-60 www.google.com.pk