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KNOWLEDGE TRANSFER MODEL CATEGORIZATION IN KPO INDUSTRY IN MIDDLE LEVEL CITIES

J. Emmanual Robin¹., Krishnamoorthy N²., Agusthiyar R³ and Sebastiraj K⁴

¹Periyar Maniammai University, Tamilnadu-India ^{2,3,4}SRM Institute of Science and Technology (SRM University)-Ramapuram Campus, Chennai, India

ARTICLE INFO	ABSTRACT
Article History: Received 20 th November, 2017 Received in revised form 27 th December, 2017 Accepted 13 th January, 2018 Published online 28 th February, 2018	KPO is the method of outsourcing with the knowledge and information related work is carried out by workers in different company or subsidiary of the same organization. This subsidiary may be in the same country or an offshore location to save costs with other resources. Categories resort to knowledge process outsourcing when they have a shortage of skilled professional and have opportunity to hire the skilled workers earning lower wages in another location for lower overall cost. KPO has been divided into three
Key words:	categories like Low, Medium, Figh. In this paper we are going to discuss how the knowledge transfer is going to happen in the knowledge Process outsourcing.
Tacitness, Complexity, Specificity, Knowledg Process Outsourcing.	e

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INTRODUCTION

Background

Organizations indulge nowadays in alliances, collaborations and partnerships. All this require transfer of knowledge, especially, knowledge related to strategies, technologies and best practices to improve the network cooperation. Research studies attempt to obtain inferences from these transfer processes so as to understand more about the characteristics of knowledge transfer.

Although the influence of knowledge characteristics has been widely acknowledged, relevant empirical research is quite absent. Because it is rather difficult to quantify the variable of knowledge characteristics and knowledge transfer efficiency, also relevant date collection can't do without making an effort. On considering the above situation, this paper aims to make deep analyze on knowledge characteristics' effect on knowledge transfer efficiency empirically.

LITERATURE REVIEW

A. Relevant research on knowledge characteristics Simonin (1999) pointed out that knowledge ambiguity would remarkably affect knowledge transfer process, and knowledge ambiguity mainly derives from knowledge tacit, specific and complex.

Corresponding author:* **J. Emmanual Robin Periyar Maniammai University, Tamilnadu-India

Tacitness

Polanyi(1967) named tacit to be "can't speak out what you know," Reed & DeFillippi (1990) argued that Knowledge tacit expressed as difficult to acknowledge and specific, which would be connected with specific context, such as the accumulation of skills need to be learn by doing, and the close communication is necessary. Simonin (1999) drew the conclusion that there exist positive correlation between the degree of knowledge tacit and knowledge ambiguity.

Complexity

Reed & Defillippi (1990) argued that the degree of Knowledge complexity can be expressed by the number of tools and routines used in the process of knowledge transfer,. Arogote & Ingram (2000) maintained that knowledge mainly transferred with the aid of specific carriers, complex carriers used to transfer more complex knowledge. Cummings (2001) also pointed that the efficiency of knowledge transfer depended on the choice of adept knowledge carrier tools, including network and routines.

Specificity

If the value of capital would decrease when it is used for Other purpose, we can say it has a certain degree of Specificity. As to knowledge transfer, the characteristics of specificity would exert influence on knowledge transfer Efficiency. For instance, local knowledge is tightly connected with local experiences and culture, which would difficult to transplant to other environment, thus would serves as barriers to transfer.

Purpose of the study

The structural model can be divided into structural equation and measurement equation, in which structural equation reflects the relationship among latent variables, measurement equation reflects the relationship between latent variable and indexes. The proposed structural equation model is presented in the following figure. The model establishes the causal-effect relationship between latent variables and tourist loyalty.

Releated Work

In this paper we discuss about the semantics of the intrinsic fuzzy cubic representation



Consider this example we have designed the table with the relationship and this relationship which will give the knowledge transfer efficiency modeling In this model the knowledge transfer can be divided into the five categories like idea creation, sharing, evulation, dissemination, adoption

Table 1 Hypothesis for Knowledge characteristics

Hypothesis
Knowledge characteristics exert distinct effect on
Knowledge transfer efficiency.
Tacitness was a distinct characteristics in the
knowledge transfer process
Complexity was a distinct characteristics in the
knowledge transfer process
Specificity was a distinct characteristics in the
process of knowledge transfer process

According to the above structural relationship and relevant analysis, we bring forward the following research hypotheses

Experimental Design

In this table 1-2 shows the dataset will give the six knowledge category matrix KC1,KC2,KC3,KC4,KC5,KC6 three base relationships like complexity,specificity,tactiness accordingly

METHODOLOGY

Linear Forward selection

In this approach the linear selection of the data will be given in the table the average complexity and tacitness will give the 30% yielding with the average validation.

Knowledgecharectri		7 4 8		No. 19			
SUCS	Tacitness	Avel acitness	Complexity	Ave Complexi	Specificity	Ave Specificity	Quality
KC1	1201	16 31439531	10	0.158/30159	301	5.73013873	medium
NC2	1055	17.08412608	10	0.174003173	202	4 328006328	Data
RC3	070	15 3069254	19	0.063402063	467	7.412608413	hed
NC4	1258	10.06825207		0.571428571	204	4.666666667	nood
NC6	1238	19.90823397	30	0.571428571	294	4.000000000	good
KC0	066	15 23232223	13	0.333333333	417	6 619047619	load
NC6	900	10.00001607	13	0.200349200	417	7.746031746	bad
KC0	1107	17 50702651	14	0.19047019	400	10 74602175	hed
NC3	1210	20 20265020	20	0.46031746	427	£ 112222112	madium
NC4	1310	21.61004762		0.40031740	326	5 174602175	meanin
RC3	1302	19 59730150	20	0.390823397	320	5.174603175	good .
KC3	11/1	17 40206240		0.149957142	2.40	\$ \$2069254	hud .
KC5	1424	22 6031746	21	0.3333333333	349	6.063402063	aaad
RCI	1924	10 \$22,0031740		0.3333333333	302	4 366070268	good
NC1	1250	20 2068254	16	0.142957142	213	4.303079303	medium
KC2	1203	20.39682.34		0.192857195	220	4.80932381 £ 3800£3381	medium
NG3	1349	10 20624021	11	0.174003175	539	9 507016509	hed
NC4	1210	19.20634921	15	0.238093238	414	6 571429571	madium
KC5	1351	21.12098413		0.3353535353	292	0.371428371	medium
NC5	1300	20.46031746	17	0.360932381	202	4 703650704	goou
NC6	1444	22.40031740	25	0.20984127	252	4.735050794	mend
NC0	1175	18 65070265	25	0.390823397	200	4.142967142	good
KC0	11/5	18.03079303	12	0.19047019	201	4.142857145	medium
NC3	1517	10 20057221	42	0.000000000/	239	*	good
NC5	1248	19.80952581		0.174003175	315	4 \$2068254	medium
KC0	1308	23.33030794	43	0.002339003	2.46	4.33906234	good
NC6	1301	10 03530603	20	0.412098415	443	7.021746022	hed
KC0	1180	22.20624021	14	0.2222222222	44.5	4.957149032	Cou.
NC3	1399	10.08413608	24	0.380932381	267	4.83/14283/	good
NC3	1259	19.98412098	20	0.005228005	307	3.825390825	good
KC4	1104	18.4/019048	0	0.095238095	311	4.950507957	Dad
KC3	12//	18.06834127	19	0.001387302	313	3.952380952	good
NC4	1195	10.17460217	2	0.079303079	441	¢ 999999990	bed
KC3	1208	19.17460317	14	0.2222222222	3/1	5.888888889	bad
KC0	1399	22.20634921	20	0.412698413	340	5.492063492	good
NC3	1259	19.96412098	14	0.2222222222	995	4.857140052	Data
KC3	1104	18.4/019048	24	0.380952381	300	4.83/14283/	Data
NC0	12/7	20.26984127	20	0.51/40051/	307	3.825590825	Dag
KC0	1195	18.96825397	0	0.095238095	311	4.93050/957	medium
KC4	1399	22.20034921	20	0.412698413	427	0.11111118	good
KC3	1259	19.98412698	14	0.2222222222	326	5.174603175	medium
KCO	1164	18.47619048	24	0.380952381	320	5.174603175	good
KC3	1277	20.26984127	- 20	0.317460317	549	5.53968254	medium
KC3	1195	18.96825397	0	0.095238095	382	0.003492003	Dad
KC4	1053	16,71428571	30	0.571428571	215	4.365079365	medium
NC3	1133	17.98412698	35	0.355555555	303	4.80952381	good
KC4	970	15.3968254	13	0.206349206	339	5.380952381	medrum
KC3	1258	19.96825397	12	0.19047619	536	8.507936508	good
KC6	1386	22	14	0.2222222222	414	6.571428571	medium
KC3	1053	16.71428571	29	0.46031746	282	4.476190476	Delid
KC3	1133	17.98412698	25	0.396825397	302	4.793650794	medium
KC4	970	15.3968254	36	0.571428571	253	4.015873016	good
KC3	1258	19.96825397	35	0.555555556	261	4.142857143	medium
KC4	1386	22	13	0.206349206	259	4.111111111	good
KC3	1053	16.71428571	12	0.19047619	326	5.174603175	medium
KC6	1133	17.98412698	14	0.222222222	349	5.53968254	bad
KC3	970	15.3968254	29	0.46031746	382	6.063492063	medium
KC3	1258	19.96825397	25	0.396825397	275	4.365079365	good
KC4	1386	22	36	0.571428571	303	4.80952381	medium
KC3	1053	16.71428571	35	0.555555556	339	5.380952381	good
KC4	1133	17.98412698	13	0.206349206	536	8.507936508	medium
KC3	970	15.3968254	12	0.19047619	414	6.571428571	good

Table 3

= Attribute selection 10 fold cross-validation (stratified), seed: 1 ===

number of folds (%) attribute

- 8(80%) 1 Knowledgecharectristics
- 5(50%) 2 Tacitness
- 3(30%) 3 AveTacitness
- 4(40%) 4 Complexity
- 3(30%) 5 Ave Complexity
- 0(0%) 6 Specificity
- 0(0%) 7 Ave Specificity

Greedy Stepwise

In this approach the linear selection of the data will be given in the table the average complexity and tacitness will give the 40%, 50% yielding with the average validation respectively

Table 4

Attribute selection 10 fold cross-validation (stratified), seed: 1 == number of folds (%) attribute

- 6(60 %) 1 Knowledgecharectristics
- 5(50 %) 2 Tacitness
- 0(0 %) 3 AveTacitness
- 4(40 %) 4 Complexity
- 0(0 %) 5 Ave Complexity
- 0(0 %) 6 Specificity
- 0(0 %) 7 Ave Specificity

In this model we are considering six categorical visualization graph given below



			г	1g 4				
Correctly Classified Instances			5	2	3.8095 %			
Incorrectly Classified Instances			es 10	5 7	76.1905 %			
Kappa statistic			0)				
Mean absolute error			0.45	31				
Root mean squared error			0.48	56				
Relative absolute error			100	%				
Root relative squared error 100 %								
Total Number of Instances 21								
Ignored C	Class Unki	nown Insta	nces	1				
TP Rate	FP Rate	Precision	Recall	F-Measure	ROC Ar	ea Class		
1	1	0.238	1	0.385	0.5	medium		
0	0	0	0	0	0.5	bad		
0	0	0	0	0	0.5	good		
Weighted Avg.:								
0.238	0.238	0.057	0.238	0.092	0.5			
=== Confusion Matrix ===								
a b c < classified as 5 0 0 a = medium 7 0 0 b = bad 9 0 0 c = good								

Analysis and Results

In the classification analysis test result show the three major category is shown the weighted average of the each complexity, specifity, tacitness as well as average for the major role FP Rate and TP Rate and the precision rate is and the F- test can be considered as the first set is the medium classes and the next is bad and the good respectively.



Fig 3 Knowledge Characteristics Plot Matrix

Correct classified responses (23.8%) are low comparatively incorrect responses (76%) is high because the negative responses have in to the picture. The mean squared error and absolute error is closely to the very few instances 0.45 and 0.48 respectively.



Fig 6 Ave Specificity Plot Matrix

CONCLUSIONS

In this study, we have taken 63 samples taken for the questionnaire survey test data. The data set was loaded into to the Weka 3.6 and the preprocessed data will be transformed into the visualization graph and the three categorical format.

The above presented method has the capability to investigate the knowledge transfer process with the help of the three basic criteria and the idea sharing and the evaluation and the adoption and creation played the major role and the calculation result shows the three major good, bad and medium responses have come in the questionnaire. This result will help to improve how the knowledge transfer and the information will reach to the respondents in the effective way in future.

Future Work

In future the data will be considered for the huge databases like the data warehouse and OLAP in the categorical history or mystery in the database repositories. In these repositories how the data can be tracked and how data can be transformed and how the results will be published these idea and tactics will be implemented in future.

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