Application of knowledge about social network in creation of study groups

Jana Makysova^{a *},
Juraj Dubovec^b,

Suggested Citation:

New Trends and Issues Proceedings on Humanities and Social Sciences.

Abstract

*

Jana Makysova,

E-mail address

1. Introduction

Figure 1. The model of social network (modified from (Dubovec, 2015))

2. Data source and data processing

Name and surname:
I do commute(C) / I live in dormitory (I)
Names of people I know in the field of study of informatics (1st year)
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

Figure 2. Structure of questionnaire

Figure 3. Fruitfulness of student (Annotation: 1 – all exams from winter semester, 0 – any exam from winter semester)

3. Data interpretation

node student	fruitfulness of student	dormitory	friends of the asked student									
1	0,57	1	12	2	55	5	6	90				
2	0,71	1	6	55	1	5	12	8				
3	0,57	0	4	6	5	12	17	16	89	55		
4	0,43	1	3	131	16	5	17	12	6	86		
5	1	0	5	12	6	55	16	17	2	3	4	1
6	1	1	6	129	55	2	12	5	1	16	4	17
7	1	1	8	62	15	63	96	64	21	11		
8	1	1	62	7	15	63	96	19	2	64	13	
9	0,71	1	11	53	13	46	60	7	15	39	14	
10	1	1	46	53	56	55	51	49	64			
11	0,86	1	9	7	15	13	14	74				
12	0,86	1	55	1	16	17	3	6				
13	0,86	1	70	87	68	89	83	15	7	14	63	96
14	0,43	1	13	15	11	9	7					
15	0,43	1	8	96	63	7	13	14	11	9		
16	0,86	1	59	17	4	89						

Figure 4. Friendships from questionnaires

node	fruitfulness of student	coefficient of friendship (CF)	friendship with same CF	friendship with CF $\pm 0,1$	bad friends
1	0,57	0,86	0	55	1
2	0,71	0,91	0	0	1
3	0,57	0,79	12	12, 4	1
4	0,43	0,80	0	12, 3	1
5	1	0,77	0	0	1
6	1	0,81	0	4	1
7	1	0,84	0	62	1
8	1	0,75	0	0	1
9	0,71	0,71	39	39	0
10	1	0,96	0	0	1
11	0,86	0,69	0	0	1
12	0,86	0,79	3	3	1
13	0,86	0,67	0	0	1
14	0,43	0,77	0	0	1
15	0,43	0,82	0	0	1
16	0,86	0,64	0	0	1

Figure 5. Table with results considering coefficient of friendship.

Figure 6. Friendship coefficients of students living in dormitory.

Figure 7. Friendship coefficients of students who do commute

4. Conclusion

References

the 4th Annual ACM Web Science Conference *In Proceedings of*

The Meme Machine Oxford

Microeconomy: Practical applications and case studies.