

## **Codebook for the student social networks dataset**

### **“Wired into each other: Network Dynamics of Adolescents in the Light of Status Competition, School Performance, Exclusion and Integration”**

Project K 81336 of the Hungarian Research Funds (OTKA)

Conducted between 2010-2013

This codebook lists all the network questions that were asked from participating students in the “Wired into each other” project of RECENS. We first present a summary of variables asked in only one, two and three of the four waves, then we move on to the bulk of network questions that were part of every wave. At the end of the document, you can find a single table that provides a concise overview of which item was asked how many times and when exactly.

Besides introducing the network questions of the study, this document serves another important purpose: it helps to find each variable in the dataset. In the first set of tables, the first column, labelled “Variables”, provides the unique identifier(s) of a given network item in the dataset. The overview table contains the same identifiers for each question. When we see more than one identifiers in a cell, these represent the item identifiers in each wave the question was asked. For example, in the case of the item “stuck-up, smug” there are two numbers, 23\_11 and 21\_8. The former is the item identifier in the first wave, the latter is the identifier in the second wave. Similarly, the item “popular” was measured only in waves 3 and 4, and in one of the tables below this item can be found with two identifiers in the Variables column: 20\_9, 26\_8. As it can be suspected, 20\_9 identifies the popular item in wave 3, and 26\_8 is the same item in wave 4.

How does one use the question identifiers to locate variables in the network dataset? Student answers to each of the network questions are stored in one file per classroom per wave. The naming convention for these files is the following:

For wave 1 data files: [classroom ID]\_[item ID].csv

For wave 2 data files: [classroom ID]\_[item ID]\_2h.csv

For wave 3 data files: [classroom ID]\_[item ID]\_3h.csv

For wave 4 data files: [classroom ID]\_[item ID]\_4h.csv

(The letter ‘h’ at the end of the filename in waves 2-4 comes from the abbreviation of the Hungarian word for “wave”.)

Let’s look at a concrete example! Assume that you would like to find the data for the “We study together” network from classroom 1100 in all waves. These are the files you would be looking for:

Wave 1: 1100\_14\_7.csv

Wave 2: 1100\_10\_5\_2h.csv

Wave 3: 1100\_5\_3h.csv

Wave 4: 1100\_5\_4h.csv

For more details on finding network variables in the dataset, see the section 3 of the Technical report (“Datasets, codebooks, and questionnaires”).

### Questions asked only in the first wave

#### PRIOR ACQUAINTANCE

Variables	Variable label	Labeled values	Range	Type	Measurement
14_1	I do not know him/her	0:No 1:Yes	0-1	Numeric	Nominal
14_2	I know him from before high school	0:No 1:Yes	0-1	Numeric	Nominal

#### PERCEIVED ATTRIBUTES/BEHAVIOR

Variables	Variable label	Labeled values	Range	Type	Measurement
23_7	Has good grades	0:No 1:Yes	0-1	Numeric	Nominal
23_8	Often in for parties	0:No 1:Yes	0-1	Numeric	Nominal
23_9	He/she is good at the profession we study. <i>(only asked in vocational classes; for others, the variable exists, but is a matrix of 0s)</i>	0:No 1:Yes	0-1	Numeric	Nominal

#### PERCEIVED POPULARITY AND RESPECT

Variables	Variable label	Labeled values	Range	Type	Measurement
25_1	Others look up to or down on him/her, or he she is neutral to others	-2: Look down -1: – 0: Neutral +1: – +2: Look up	-2 - +2	Numeric	Ordinal

### Questions asked only in the first and second waves

#### PERCEIVED ATTRIBUTES/BEHAVIOR

Variables	Variable label	Labeled values	Range	Type	Measurement
23_11, 21_8	Stuck-up, smug	0:No 1:Yes	0-1	Numeric	Nominal
23_12, 21_9	Reserved, shy	0:No 1:Yes	0-1	Numeric	Nominal
24_6, 22_6	Has a lot of money	0:No 1:Yes	0-1	Numeric	Nominal
24_7, 22_7	Decides what we do after school	0:No 1:Yes	0-1	Numeric	Nominal

**Questions asked only in the first, second and third waves**

**PERCEIVED ATTRIBUTES/BEHAVIOR**

Variables	Variable label	Labeled values	Range	Type	Measurement
23_10, 21_7, 20_7	Teacher's pet	0:No 1:Yes	0-1	Numeric	Nominal

**Questions asked only in the second, third and fourth waves**

**PERCEIVED POPULARITY AND RESPECT**

Variables	Variable label	Labeled values	Range	Type	Measurement
23_3, 22_3, 37_3	Many students look down on him/her, but he/she does not deserve it	0:No 1:Yes	0-1	Numeric	Nominal

**Questions asked only in the third and fourth waves**

**PERCEIVED POPULARITY AND RESPECT**

Variables	Variable label	Labeled values	Range	Type	Measurement
20_9, 26_8	Popular	0:No 1:Yes	0-1	Numeric	Nominal

## Questions asked in all waves

### JOINT SOCIAL ACTIVITIES

Variables	Variable label	Labeled values	Range	Type	Measurement
14_3, 10_1, 17_1, 19_1	I sit next to him/her in classes	0:No 1:Yes	0-1	Numeric	Nominal
14_4, 10_2, 17_2, 19_2	We go home together after school	0:No 1:Yes	0-1	Numeric	Nominal
14_5, 10_3, 17_3, 19_3	We attend optional classes and/or sports trainings together	0:No 1:Yes	0-1	Numeric	Nominal
14_6, 10_4, 17_4, 19_4	We spend some of our free-time together	0:No 1:Yes	0-1	Numeric	Nominal
14_7, 10_5, 17_5, 19_5	We study together	0:No 1:Yes	0-1	Numeric	Nominal
14_8, 10_6, 17_6, 19_6	I date him/her	0:No 1:Yes	0-1	Numeric	Nominal
14_9, 10_7, 17_7, 19_7	I used to date him/her	0:No 1:Yes	0-1	Numeric	Nominal

### AFFECTIVE RELATIONS

Variables	Variable label	Labeled values	Range	Type	Measurement
15, 11, 19, 20	Please tell us how much you like or dislike your classmates.	-2: Hate -1: Dislike 0: Neutral +1: Like +2: Good friend	-2 - +2	Numeric	Ordinal

# PERCEIVED ATTRIBUTES/BEHAVIOR

Variables	Variable label	Labeled values	Range	Type	Measurement
23_1, 21_1, 20_1, 26_1	Funny	0:No 1:Yes	0-1	Numeric	Nominal
23_2, 21_2, 20_2, 26_2	Often gets involved in physical fights	0:No 1:Yes	0-1	Numeric	Nominal
23_3, 21_3, 20_3, 26_3	Nerd	0:No 1:Yes	0-1	Numeric	Nominal
23_4, 21_4, 20_4, 26_4	Gossipy	0:No 1:Yes	0-1	Numeric	Nominal
23_5, 21_5, 20_5, 26_5	Kind	0:No 1:Yes	0-1	Numeric	Nominal
23_6, 21_6, 20_6, 26_6	Clever	0:No 1:Yes	0-1	Numeric	Nominal
23_13, 21_10, 20_8, 26_7	Roma/Gipsy	0:No 1:Yes	0-1	Numeric	Nominal
24_3, 22_3, 21_3, 27_3	Pretty/Handsome	0:No 1:Yes	0-1	Numeric	Nominal
24_4, 22_4, 21_4, 27_4	I would date him/her	0:No 1:Yes	0-1	Numeric	Nominal
24_5, 22_5, 21_5, 27_5	Dares to argue with the teachers	0:No 1:Yes	0-1	Numeric	Nominal

24_8, 22_8, 21_6, 27_6	Protects the weak	0:No 1:Yes	0-1	Numeric	Nominal
24_9, 22_9, 21_7, 27_7	Trustworthy	0:No 1:Yes	0-1	Numeric	Nominal
24_10, 22_10, 21_8, 27_8	Is able to solve disputes	0:No 1:Yes	0-1	Numeric	Nominal
24_11, 22_11, 21_9, 27_9	Would be able to organize a class trip	0:No 1:Yes	0-1	Numeric	Nominal
24_12, 22_12, 21_10, 27_10	I could ask him/her for help	0:No 1:Yes	0-1	Numeric	Nominal

#### **PERCEIVED POPULARITY AND RESPECT**

Variables	Variable label	Labeled values	Range	Type	Measurement
24_1, 22_1, 21_1, 27_1	I look up to him/her	0:No 1:Yes	0-1	Numeric	Nominal
24_2, 22_2, 21_2, 27_2	I look down on him/her	0:No 1:Yes	0-1	Numeric	Nominal
(25_1)* 23_1, 22_1, 37_1	Many students look up to him/her	0:No 1:Yes	0-1	Numeric	Nominal
(25_1)* 23_2, 22_2, 37_2	Many students look down on him/her	0:No 1:Yes	0-1	Numeric	Nominal
24_13,** 23_4, 22_4, 37_4	Many students look up to him/her, but he/she does not deserve it	0:No 1:Yes	0-1	Numeric	Nominal

## BULLYING

Variables	Variable label	Labeled values	Range	Type	Measurement
33_1, 32_1, 39_1, 38_1	Who have you beaten up?	0:No 1:Yes	0-1	Numeric	Nominal
33_2, 32_2, 39_2, 38_2	Who has beaten you up?	0:No 1:Yes	0-1	Numeric	Nominal
33_3, 32_3, 39_3, 38_3	Who do you tell bad things about?	0:No 1:Yes	0-1	Numeric	Nominal
33_4, 32_4, 39_4, 38_4	Who tells bad things about you?	0:No 1:Yes	0-1	Numeric	Nominal
33_5, 32_5, 39_5 38_5	Who do you mock?	0:No 1:Yes	0-1	Numeric	Nominal
33_6, 32_6, 39_6, 38_6	Who mocks you?	0:No 1:Yes	0-1	Numeric	Nominal
33_7, 32_7, 39_7, 38_7	Who have you deliberately humiliate?	0:No 1:Yes	0-1	Numeric	Nominal
33_8, 32_8, 39_8, 38_8	Who has deliberately humiliated you?	0:No 1:Yes	0-1	Numeric	Nominal

### Overview of all network items

(The reported numbers are the unique item identifiers for each question in every wave)

<u>Network item</u>	<u>Wave 1</u>	<u>Wave 2</u>	<u>Wave 3</u>	<u>Wave 4</u>
<b>PRIOR ACQUAINTANCE</b>				
I do not know him/her	14_1			
I know him from before high school	14_2			
<b>JOINT SOCIAL ACTIVITIES</b>				
I sit next to him/her in classes	14_3	10_1	17_1	19_1
We go home together after school	14_4	10_2	17_2	19_2
We attend optional classes and/or sports trainings together	14_5	10_3	17_3	19_3
We spend some of our free-time together	14_6	10_4	17_4	19_4
We study together	14_7	10_5	17_5	19_5
I date him/her	14_8	10_6	17_6	19_6
I used to date him/her	14_9	10_7	17_7	19_7
<b>AFFECTIVE RELATIONS</b>				
Friendship-dislike scale	15	11	19	20
<b>PERCEIVED POPULARITY AND RESPECT</b>				
Popular			20_9	26_8
I look up to him/her	24_1	22_1	21_1	27_1
I look down on him/her	24_2	22_2	21_2	27_2
A lot of people look up to him/her	(25_1)*	23_1	22_1	37_1
A lot of people look down on him/her	(25_1)*	23_2	22_2	37_2
A lot of people look up to him/her, but he/she does not deserve it	24_13**	23_4	22_4	37_4
A lot of people look down on him/her, but he/she does not deserve it		23_3	22_3	37_3
<b>PERCEIVED ATTRIBUTES/BEHAVIOR</b>				
Funny	23_1	21_1	20_1	26_1
Clever	23_6	21_6	20_6	26_6
Kind	23_5	21_5	20_5	26_5
Reserved, shy	23_12	21_9		
Stuck-up, smug	23_11	21_8		
Gossipy	23_4	21_4	20_4	26_4
Often gets involved in physical fights	23_2	21_2	20_2	26_2
Has a lot of money	24_6	22_6		
Pretty/Handsome	24_3	22_3	21_3	27_3
I would date him/her	24_4	22_4	21_4	27_4



Nerd	23_3	21_3	20_3	26_3
Teacher's pet	23_10	21_7	20_7	
Dares to argue with the teachers	24_5	22_5	21_5	27_5
Protects the weak	24_8	22_8	21_6	27_6
Is able to solve disputes	24_10	22_10	21_8	27_8
Decides what we do after school	24_7	22_7		
Would be able to organize a class trip	24_11	22_11	21_9	27_9
Trustworthy	24_9	22_9	21_7	27_7
I could ask him/her for help	24_12	22_12	21_10	27_10
Roma/Gipsy	23_13	21_10	20_8	26_7
Is good at the profession we study (in vocational classes only)	23_9			
Often in for parties	23_8			
Has good grades	23_7			
<b>BULLYING</b>				
Who have you beaten up?	33_1	32_1	39_1	38_1
Who has beaten you up?	33_2	32_2	39_2	38_2
Who do you tell bad things about?	33_3	32_3	39_3	38_3
Who tells bad things about you?	33_4	32_4	39_4	38_4
Who do you mock?	33_5	32_5	39_5	38_5
Who mocks you?	33_6	32_6	39_6	38_6
Who have you deliberately humiliate?	33_7	32_7	39_7	38_7
Who has deliberately humiliated you?	33_8	32_8	39_8	38_8
<b>TOTAL NUMBER OF NETWORK ITEMS</b>	<b>47</b>	<b>43</b>	<b>40</b>	<b>39</b>

\* Perceptions about who is looked up to and looked down on in the class (note: do not confuse with direct looking up and down) was measured differently in wave 1 than in the later waves. At first, the measure was a 5-point scale (-2: others look down on him/her ... 0: he/she is neutral to others ... +2: others look up to him/her). Our experience showed that such a measure was not always understandable for students, so the measurement was changed to two individual binary items (who do others look up to and down on?). Consult the given items in the questionnaires for further comparison. As a result of all this, we do not advise the use of these first-wave measures together with later perceived looking up and down items!

\*\* This question was relocated in the questionnaire after wave 1. From wave 2 on, it was asked on a separate page together with the other three perceived respect networks. In wave 1, it was placed right after the perceived attribute networks. We advise caution when using first-wave and later measures of this item together.