

1 Research article

2 The representation of work in people with different 3 individual mental resources

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9 **Abstract:** The paper is devoted to the revealing relations among the concept "work" as a correlate of
10 the individual picture of the world and indicators of human mental resources. To the main issue is
11 whether people with different mental resources differ in their views on work. Design included
12 assessment of individual mental resources (temperament, fundamental personality traits, character
13 traits, cognitive styles, intelligence and motivation) and directed associative experiment (stimulus
14 word "work"). Participants of the experiment were 1110 persons aged 17-57 years. We processed the
15 data by mathematical, linguistic and statistical approach. The results of the study showed that the
16 apparently, it is very important for more emotional and more active respondents their emotionally-
17 evaluative attitude to work (cheerful, calm, active, beloved, responsible), while for less emotional –
18 spatio-temporal (the closer and less work - the better) (close, long, short, large, slow).
19 The study was supported by RSF grant (project № 18-18-00386), Institute of Psychology RAS.

20 **Keywords:** concept "work", temperament, character, cognitive styles, motivation

21

22 1. Introduction

23 Every person chooses his future profession depending on the capabilities, desires and plans he
24 has for life. So, no wonder, work is considered as an integral part of a human's life. Of course,
25 everyone wants a highly-paid prestigious job that can not only give you a chance to enter a new social
26 level in the society but for which no effort is needed, however the reality and our desires very often
27 do not coincide.

28 Work is an essential part of human existence, in which his individual picture of the world is
29 formed, through the prism of which his ideas about the world, society and his place in the system of
30 social relations that give man existence are refracted [1]. Therefore, the work is a topical subject of
31 research and study of scientists from different fields: psychology [2], linguistics [3], sociology [4],
32 economics [5], etc. Thus, concept with confidence can be attributed to the most important, value
33 concepts.

34 The concept, according to M. V. Pimenova [6] is an interdisciplinary phenomenon since it is used
35 in the whole complex of sciences, including in different directions of linguistics; and has a complex
36 and multi-dimensional structure. A concept as a cognitive phenomenon is a unit of the mental
37 resources of our consciousness and that information structure that reflects human knowledge and
38 experience; substantial operational memory unit, mental lexicon, conceptual system and brain
39 language (*lingua mentalis*), the whole picture of the world, as reflected in the human psyche [7].

40 In modern psychology concepts are defined as a core factor in the structure of individual mental
41 resources, that determines the intellectual productivity [8]. Concepts take an active part in all forms
42 of organization of mental experience, determining the peculiarities of the individual picture of the
43 person's world, arbitrary self-regulation of mental activity and peculiarities of his social behavior [9,
44 10, 11].

45 The studies of M. A. Kholodnaya and E. V. Volkova revealed that the level of organization of
 46 concepts determines the characteristics of the conceptualization of what is happening, the level of
 47 intelligence and creativity, competence and success of professional activity [8]. Concepts perform a
 48 core function in the structure of individual mental resources and determine to a large extent the
 49 productivity of human life, and, consequently, can determine the idea of work and attitude to it [12,
 50 13].

51 The research analysis of the dictionaries of the Russian language shows that the word "work"
 52 has several meanings such as chore; an activity; business; occupation; achievement; effort; a place;
 53 creation; effort; employment; endeavor; industry; job; performance; production; struggle; task etc.
 54 [14, 15, 16].

55 Thus, the question arises whether young people with different mental resources differ in their
 56 views on work?

57 *The purpose* of the research is to study the relationship between the characteristics of the
 58 organization of the concept of "work" associated with the individual psychological properties of the
 59 individual, as a correlate of the individual picture of the world and the mental resources of a person
 60 at the stage of early adulthood.

61 2. Materials and Methods

62 The research was carried out from 2017 to 2018. Participants took part in a research on a
 63 voluntary basis in compliance with the generally accepted ethical standards of the organization of
 64 psychological research. In order to reduce social desirability participants did not specify their names,
 65 but only their age and gender. Participants of the study were given forms with instructions and
 66 stimulus material, in case of difficulties, the researcher answered the questions.

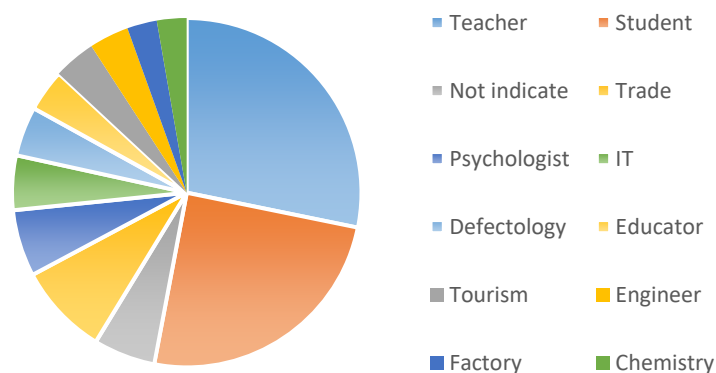
67 2.1 Participants

68 The study involved 1100 people from Russia (Kaluga, Kostroma, Perm, Taganrog, Moscow) in
 69 various fields of activity. The minimum age of the respondents - 17 years. Maximum - 57 years. The
 70 average age of the sample - $24,46 \pm 6,59$.

71 Detailed data on occupations can be found in Figure 1.

72

Figure 1. Occupation profile of the respondents



73

74 2.2. Methods

75 A multiple design was used in our research including assessment of (a) the organization of the
 76 concept *Work* (directed associative experiment) and estimation of (b) individual mental resources: 1)
 77 temperament, 2) fundamental personality traits, 3) character traits, 3) cognitive styles, 4) motivations.

78

79 2.2.1. Method of assessment of concept organization

80 To study the peculiarities of the concept “Work”, the method “Directed associative experiment”
 81 was used. Respondents were asked to write as many adjectives as possible corresponding to the
 82 stimulus word. The given time - 2 minutes.

83 Respondents' answers (list of adjectives) were analyzed by the following indicators:

84 1. The field structure of the concept that included the core of the concept, near periphery and far
 85 periphery. The first reaction to the stimulus word was considered since many researchers pointed
 86 out that the first reaction is the freest from social desirability and allows us to reveal the implicit
 87 notions about the object under study [17].

88 2. Objectification index of sensory-emotional modalities (sensory; emotionally-evaluative; spatio-
 89 temporal modalities) - the ratio of the measure of objectification (sensory-emotional modalities) and
 90 the measure of the volume of the associative field (the number of written words) (the closer the
 91 objectification index to 1, the higher the level of objective sensory-emotional representation of the
 92 concept) [9].

93 The sensory-emotional features of the concepts:

- 94 • Sensory - heavy, light, loud, warm, sedentary.
- 95 • Emotionally-evaluative - cheerful, calm, active, beloved, responsible.
- 96 • Spatio-temporal, for example: close, long, short, large, slow.

97

98 2.2.2 Methods of assessment of individual mental resources

99 To estimate temperament properties the shortened version of the Structure Temperament
 100 Questionnaire [18] was used.

101 To evaluate the fundamental personality dimensions the Russian modified, validated, and
 102 shortened version of Eysenck PEN-questionnaire [19] was used.

103 To assess character traits the shortened version of the questionnaire [20] was used.

104 To estimate cognitive styles the shortened version of Cognitive Personality Styles Questionnaire
 105 [21] was used.

106 Motivation was assessed by achievement motivation indicator, accessibility motivation
 107 (orientation to accessibility of professional activity), and value motivation (orientation to personal
 108 value of professional activity) [20].

109 2.3. Mathematical Analysis

110 Mathematical data processing was carried out by using the IBM SPSS Statistics 22. Statistical
 111 processing techniques of empirical data included descriptive statistics, parametric methods for
 112 identifying differences (Independent-Samples T-Test) and relationships (Hierarchical Cluster
 113 Analysis Ward's Method).

114 3. Results

115 Four homogeneous groups were allocated based on Hierarchical Cluster Analysis (Ward's
 116 Method, T-scores by variable) to reveal the relations among the features of the organization of the
 117 concept *Work* and indications of human mental resources we identified.

118 Average values of the indicators of fundamental personality dimensions in the groups are
 119 presented in Table 1. The significance of differences (p) in indicators between the groups of
 120 respondents varies from 0.000 to 0.002.

121 **Table 1.** Comparative analysis of formal-dynamic properties of individuality in early
 122 adulthood

Variables	Mean			
	Cluster 1 N= 427	Cluster 2 N = 49	Cluster 3 N=107	Cluster 4 N= 317
Total Activity / T.A.	4,50±1,317	7,49±1,024	7,98±0,931	4,20±1,339
Total Emotionality/ T.E.	7,32±1,154	4,59±1,164	7,77±0,842	3,92±1,041

123 The first cluster united people less active, but more emotional.. The second cluster include more
 124 active and less emotional respondents. Third cluster has more active and more emotional
 125 respondents. The fourth cluster includes less active and less emotional young people.

126

127 *3.1. Notions about Work in respondents with different formal-dynamic properties of individuality*
 128 *in early adulthood*

129 The results of a comparative analysis of notions about *Work* in respondents with different
 130 formal-dynamic properties of individuality are presented in Table 2.

131

Table 2. The core and periphery of the concept *Work* in different groups of respondents

Association frequency	The frequency of occurrence of the trait							
	More active				Less active			
	More emotional (Cluster 1)		Less emotional (Cluster 2)		More emotional (Cluster 3)		Less emotional (Cluster 4)	
Core	Favorite	13,1%	Interesting	22,5%	Interesting	18,5%	Interesting	16,7%
Near periphery	Interesting	11,2%	Responsible	8,8%	Hard	8%	Difficult	8,8%
	Difficult	11,2%	Favorite	7,2%	Responsible	7,3%	Hard	7,9%
	Responsible	8,4%	Hard	6%	Difficult	5,4%	Responsible	5%

132

133 Frequency analysis of associations (first reactions) showed the predominance positive emotional
 134 characteristics in the structure of notions about *Work*. However, a considerable number of peripheral
 135 features indicated a that any work isn't easy as it requires effort and responsibility. The core of the
 136 concept is the word "interesting". The near periphery is responsible, hard, difficult.

137

138 Now consider the peculiarities of the respondents' ideas about their work, in groups of students
 139 with different degree of emotionality and activity. As it can be seen from the **table 2**, for more active
 140 respondents work is "interesting" and "favorite", and for less active - "interesting" and "difficult".

141

142 To understand the reasons for this choice of words, we turn to the tables (**tables 3,4,5,6**) of
 143 comparative analysis.

144

145 *3.2. Interrelations between individual's mental resources and his/her representation about Work*

146

147 Comparative analysis of individual mental resources in respondents with varying fundamental
 148 personality traits revealed significant differences in indicators of temperaments, cognitive styles, and
 149 motivation. (Table 3)

150

Table 3. Comparative analysis of individual mental resources in young people with varying
 151 fundamental personality traits (degree of activity and emotionality)

Variables	More active		Student t-criterion	Less active		Student t-criterion
	More emotional (Cluster 1)	Less emotional (Cluster 2)		More emotional (Cluster 3)	Less emotional (Cluster 4)	
Formal-dynamic properties of individuality						
Psychomotor sphere	7,29	7,01	-1,539	4,53	4,20	2,038*
Intellectual sphere	7,49	7	-2,732***	4,77	3,92	2,682**
Communication sphere	7,23	6,64	-3,091***	5,02	4,28	2,016*
Total Activity	7,98	7,49	-4,390***	4,50	4,45	3,044***
Total Emotionality	7,77	4,59	-28,874***	7,32	4,74	42,022***
Fundamental personality traits						
Extraversion	6,93	6,49	-2,360**	5,21	4,79	3,082***
Neuroticism	6,93	4,9	-10,513***	6,49	4,80	13,565***
Psychoticism	5,30	5,26	-0,151	5,18	5,34	-1,144

148 As it can be seen from **Table 3**, more active and more emotional (cluster 1) respondents are
 149 mostly characterized by a high level of intellectual abilities, high flexibility of thinking, high speed of
 150 mental processes (intellectual sphere). They easily enter new social relationships, quickly verbalize,
 151 and have an urgent need for communication (communicative sphere). They are very sociable, have a
 152 wide range of acquaintances (extroversion), emotionally stable, easy to adapt to various stressful
 153 situations (neuroticism). Cluster 3 unites less active and more emotional young people. It is
 154 characterized by a high need for movement, high flexibility, high rate of psychomotor behavior
 155 (psychomotor sphere).

156 **Table 4.** Comparative analysis of character traits in groups of respondents with different level
 157 of formal-dynamic properties of individuality in early adulthood

Variables	More active		Student t-criterion	Less active		Student t-criterion
	More emotional (Cluster 1)	Less emotional (Cluster 2)		More emotional (Cluster 3)	Less emotional (Cluster 4)	
Hyperthymicity	6,51	6,35	-0,803	4,98	4,50	2,878***
Stuckness	6,43	4,76	-7,685***	6,01	4,90	8,282***
Emotivity	6,25	4,89	-6,994***	5,99	4,67	10,576***
Pedanticity	6,54	5,91	-2,884***	5,52	5,05	3,517***
Anxiety	5,74	4,83	-4,196***	6,11	5,07	8,348***
Cyclothymicity	6,17	4,78	-6,040***	6,09	5,11	6,762***
Demonstrativeness	6,79	6,33	-2,236**	5,39	5,10	2,116**
Dystimicity	3,26	2,58	-3,660***	3,40	3,05	2,883***
Exaltiveness	5,92	4,87	-4,661***	5,94	5,12	6,182***

158 More active and more emotional respondents (Cluster 1) are hypersensitive to critical remarks
 159 (Stuckness), a keen sense of justice (Emotivity), a constant desire to maintain order (pedantry), mood
 160 swings for no apparent reason (Cyclothymicity), a constant desire for attention (Demonstrative).

161 Less active and more emotional respondents (Cluster 3) are distinguished by high activity, high
 162 level of optimism and sustained good mood (Hyperthymia), as well as a constant feeling of anxiety
 163 (anxiety), they focus on the dark sides of life (Dystyme).

164 Cluster 2 and Cluster 4 are characterized by almost the same indicators of Exaltation. Therefore,
 165 they are emotionally unstable and show a strong reaction to different life situations.

166 **Table 5.** Comparative analysis of cognitive styles in groups of respondents with different level
 167 of formal-dynamic properties of individuality in early adulthood

Variables	More active		Student t-criterion	Less active		Student t-criterion
	More emotional (Cluster 1)	Less emotional (Cluster 2)		More emotional (Cluster 3)	Less emotional (Cluster 3)	
Field dependence	6,22	5,19	-4,942***	5,79	4,94	6,048***
Narrow equivalence range	6,58	5,89	-3,035***	5,68	4,87	5,738***
Wide range of equivalence	5,67	5,47	-0,839	5,34	4,98	2,582**
Rigidity	6,06	5,13	0,092	6,15	5,14	7,427***
Impulsivity	6,40	5,71	-3,655***	5,52	4,80	4,978***
Reflectivity	6,48	5,64	-3,642***	5,40	4,84	3,933***
Concrete conceptualization	6,53	5,43	-5,239***	5,89	4,95	6,823***
Abstract conceptualization	6,53	6,50	-5,239	5,27	4,91	2,659***
Tolerance	6,76	6,29	-2,262**	5,28	4,97	2,258**
Intolerance	6,03	5,12	-3,663***	5,79	5,13	4,992***

168 According to the data presented in table 4, Cluster 1 is characterized by a focus on external
 169 features in solving social problems (Field dependence); high sensitivity to details (Narrow range of
 170 equivalence); the ability to classify objects of activity according to some generalized categorical
 171 grounds (Wide range of equivalence); spontaneous, often erroneous decisions (Impulsivity); slow
 172 pace of decision-making (Reflectivity); dependence on the status and authority of the source of
 173 information (Specific conceptualization), ability to make original decisions (Tolerance to unrealistic
 174 experience), but block unacceptable, contradictory information (Intolerance to unrealistic
 175 experience).

176 Less active and more emotional respondents (Cluster 3) are distinguished by strict adherence to
 177 the outlined plan and activity instructions under any circumstances (Rigidity of cognitive control), as
 178 well as for them it is also common to choose atypical ways of solving the problem (Abstract
 179 conceptualization).

180 **Table 6.** Comparative analysis of indicators of motivation in groups of respondents with
 181 different level of formal-dynamic properties of individuality in early adulthood

Variables	More active		Student t-criterion	More active		Student t-criterion
	More emotional	Less emotional		More emotional	Less emotional	
Achievement motivation	7,26	6,31	-5,425***	5,37	4,38	7,052***
Accessibility motivation	6,26	6,30	0,155	5,59	5,07	2,474**
Value motivation	5,93	5,36	-2,418**	5,46	4,81	4,458***

182 It should be emphasized that all clusters are characterized by high indicators of motivation of
 183 achievement. However, the highest indicators of motivation are shown in Cluster 1, which means
 184 that for these people, the importance and importance of the profession is more important than its
 185 availability. As for less active and more emotional respondents (Cluster 3), there is an opposite
 186 tendency observed: the accessibility of the profession predominates over its value.

187 **Table 7.** Comparative analysis of objectification index of sensory-emotional modalities (sensory;
 188 emotionally-evaluative; spatio-temporal modalities) in groups of respondents with different level of
 189 formal-dynamic properties of individuality (indicator *Activity*) in early adulthood

Variables	More active		Student t-criterion	Less active		Student t-criterion
	More emotional	Less emotional		More emotional	Less emotional	
Sensory modality	0,1941	0,1996	1,310	0,2184	0,2475	0,287
Emotionally-evaluative modality	0,7284	0,6993	-1,375	0,6757	0,66452	-1,251
Spatio-temporal modality	0,0775	0,1012	0,457	0,1058	0,1073	1,819

190 As it can be seen from Table 7, the difference between the clusters depending on activity was not
 191 revealed. Consequently, the question arises whether people with different emotionality differ in their
 192 views on work?

193 **Table 8.** Comparative analysis of objectification index of sensory-emotional modalities (sensory;
 194 emotionally-evaluative; spatio-temporal modalities) in groups of respondents with different level of
 195 formal-dynamic properties of individuality (indicator *Emotionality*) in early adulthood

Variables	More emotional		Student t-criterion	Less emotional		Student t-criterion
	More active (Cluster 1)	Less active (Cluster 2)		More active (Cluster 3)	Less Active (Cluster 4)	
Sensory modality	0,1941	0,2184	-1,347	0,1996	0,2475	-2,935**
Emotionally-evaluative modality	0,7284	0,6757	2,414*	0,6993	0,66452	2,836**
Spatio-temporal modality	0,0775	0,1058	-2,334*	0,1012	0,1073	-0,556

196 According to available data form table 8, more active and more emotional respondents (Cluster
 197 1) are characterized by a greater representation of emotionally-evaluative features of the concept of
 198 Work, as well as for less emotional and more active differ from less active ones by a smaller
 199 representation of sensory signs, but more emotional-evaluative ones.

200 Apparently, it is very important for more emotional and more active respondents their
201 emotionally-evaluative attitude to work, while for others – spatio-temporal (the closer and less work
202 - the better).

203 4. Discussion

204 Analysis of all gathered associations based on the elements of the core of the concept allowed
205 identifying positive emotional manifestations as the main categories of ideas about Work. The
206 predominance of emotional characteristics in the structure of notions about Work, many moving
207 peripheral elements demonstrates the insufficient formation of the concept.

208 A selection of words like «Favorite», «Interesting», «Difficult», «Responsible» more active and
209 more emotional people may be associated with, that they are important emotional component of
210 the work, as well as extreme accuracy and integrity. Spatio-temporal component is the place to be,
211 since it is likely that this type of people will have enough resources to deal with diverse parts of the
212 work.

213 More active and less emotional respondents describe the work with the words: «Interesting»,
214 «Responsible», «Favorite», «Hard» since due to the prevalence of emotional-evaluative modality they
215 are inherent transcend direct contact with reality and move into the region of more distant temporal,
216 spatial and semantic contexts.

217 Less active and more emotional people describe work with words «Interesting», «Hard»,
218 «Responsible», «Difficult» probably because of the difficulties experienced when changing the ways
219 of processing information in a situation of solving complex and ambiguous tasks.

220 «Interesting», «Difficult», «Hard», «Responsible» - words that are chosen by less active and less
221 emotional people based on their low energy level, high demand for sensory modality and high
222 demand for working space availability.

223 Less emotional people prefer words «Interesting», «Responsible», «Hard» because, presumably, the
224 sensations of their work are important to them.

225 Less active people choose words «Hard» и «Difficult», probably because they may lack the
226 resources and strength to carry out such activities.

227 Single word choice «Interesting» It may be related to the fact that work for all respondents excites
228 interest, is something entertaining and curious.

229 5. Conclusions

230 The data obtained revealed significant differences in the notions about work in people with
231 different mental resources differ. Analysis of all proposed associations based on the elements of the
232 core zone allowed identifying positive emotional manifestations as the main categories of ideas about
233 work. The predominance of emotional characteristics in the structure of notions about work the
234 sufficient formation of the concept.

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