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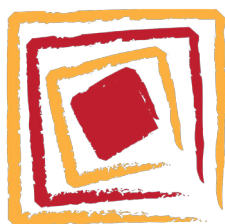
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Editorial

We are glad to introduce our readers to new issue of ***Organizational Psychology Journal***. We are pleased to continue to acquaint readers with the latest developments in organizational psychology.

We are glad to present four research reports in the **“Research in organizational psychology”** section. The article *“Decision-making in organizations under power”* (Antoliy Karpov) presents methodological approach to explanation of decision-making. The paper *“Personality resources and work motivation: A beneficial synergy”* aims to show the motivational function of personality resources in the organizational context. One more group research *“Conceptual framework of cognitive social capital in organizations from a social psychology perspective”* aims to develop a conceptual model of cognitive social capital for organizations. In the research *“Resilience as internal resource in the teaching profession”* (Marina Frizen) author tested an assumption that the resilience used by teachers at different levels of its expressiveness, has specifics in comparison with doctors, the place of residence and involvement in the management work.

In the **“Organizational-psychological practice”** Igor Gurkov and Evgeniy Morgunov present original exploration of organizational phenomenon - *“Rituals of the formal opening of new Russian plants of foreign corporations: the meaning, content and manner of ceremonies”*.

The quasi-experimental research *“The Interrelation of Employees’ Creativity Level and Conflict Behavior”* (Anastasia Fedorova) in the **“First Steps”** section aims to explore creativity in three dimensions: as a divergent thinking, a self-actualization component, and a flow state and shows that creativity can predicts conflict behavior in organization.

In the **“Conferences”** section there are two short reports about conferences: The 27th conference of the National Institute of Certified Management Consultants *“Business in Russia: risks and prospects for development in new conditions”*, IX International scientific and practical conference *“Organizational psychology: people and risks”*.

And in the **“Literary Guide”** we announce the publication of a new book *«Fifth leg. Supervisory Board in the development of small and medium business. Catechism»* written by the founders of the consulting firm «STEP» — Eugene Emelyanov and Svetlana Emelyanova.

Please Enjoy Reading!



ORGANIZATIONAL PSYCHOLOGY

Decision-making in organizations under power

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Abstract. The main *goal* is to identify and explain the specific features of decision-making processes in organizations in the terms of power influence. The research is based on a *methodological approach* to the study of decision-making processes in management activity, from the standpoint of which they are treated as integral processes of its mental regulation. According to this approach, these processes are based on the comprehensive invariant structure of its main components, the integration of which determines its main features. *The design of the study* involved a combination of professionographic activity-analytical schemes with the technique of situational modeling and study of managerial decision-making. In addition, it combined two approaches to the analysis of experimental materials. One of them had the character of structural analysis, and the second was based on phenomenological study. Structural analysis involves comparing these processes in terms of quantitative and qualitative parameters of their main components (information basis, criteria, alternatives, rules, methods, etc.). *Findings.* The main directions and regularities of content transformation characteristics of the main components of the decision-making processes are revealed and interpreted. It is shown that such a transformation is not only complex, but also coordinated, since its various forms are naturally interconnected with each other and, moreover, mutually determine each other. It is proved that the dominant vector of all these transformations is deoptimization of procedural characteristics of the decisions and, consequently, a decrease in its qualitative parameters. All discovered transformations are also interpreted in a more general organizational context. *Value of the results.* A new phenomenon, typical for decision-making processes is also discovered and interpreted. This phenomenon (the phenomenon of “risk polarization”) is typical for decision-making processes in hierarchically organized groups. It is most typical for managerial decisions in organizations. First identified and verified a new scientific the result, consisting in the proof that the specification of the decision-making processes in terms of power influence affects not only their phenomenological manifestations, but the basic components of these processes. These components are alternatives to choice, its criteria, as well as its information basis and implementation strategies.

Key words: decision-making, organizational decisions, managerial decisions, invariant choice structure, power impact, a voluntary choice, forced choice, shift the risk, the risk of polarization.

References

- Adair, J. (2009). *Effective Decision Making. The Essential Guide to Thinking for Management Success*. Pan Macmillan.
- Blacker, K., McConnell, P. (2015). *People Risk Management: A Practical Approach to Managing the Human Factors That Could Harm Your Business*. Kogan Page.
- Brehm, J. W. (1970). *A theory of psychological reactance*. N. Y., Morristown, General Learning Press.

- Cartwright, D. (1965). Influence, Leadership, Control. In J. G. Maarch (Ed.) *Handbook of Organizations* (1–47). Chicago, Rand McNally.
- Hammond, J., Keeney, R., Raiffa, G. et al. (2017). *Metody prinyatiya resheniy (HBR)* [Methods of decision making (HBR)]. M.: Al'pina Publisher.
- Hollander, E. P. (1964). *Leader, groups and influence*. N. Y.
- Kaneman, D., Slovik, P., Tversky, A. (2014). *Prinyatie resheniy v neopredelennosti* [Decision making in uncertainty]. Khar'kov: Gumanitarnyy tsentr.
- Karpov, A. V. (1999). *Psikhologiya menedzhmenta* [Psychology of management]. M.: Gardariki.
- Karpov, A. V. (2000). *Obshchaya psikhologiya sub'ektivnogo vybora: struktura, protsess, genesis* [General psychology of individual choice: structure, process, genesis]. M.: Institut psikhologii RAN.
- Karpov, A. V. (2015). *Psikhologiya deyatel'nosti* [Psychology of activity]. V 5-ti tt. M.: RAO.
- Karpov, A. V. (2016). *Psikhologiya vybora i pedagogika* [Psychology of choice and pedagogy]. In M. I. Rozhkov (Ed.). *Vospitanie svobodnogo cheloveka* (94–96.). Yaroslavl': YaGPU.
- Karpov, A. V., Karpov, A. A., Markova, E. V. (2016). *Psikhologiya prinyatiya resheniy v upravlencheskoy deyatel'nosti* [Psychology of decision-making in management activities]. M.: Izd-vo RAO.
- Kipnis, D. (1974). The powerholder. In J. T. Tcdeschi (Ed.). *Perspectives on social power* (82–122). Chicago: Aldine, 1974.
- Kozeletsky, Yu. (1979). *Psikhologicheskaya teoriya resheniy* [Psychological theory of solutions]. M.: Progress.
- Lehrer, J. (2010). *Kak my prinimaem resheniya* [How we make decisions]. M.: Astrel': Sorpus.
- Lomov, B. F. (red.) (1981). *Normativnye i deskriptivnye modeli prinyatiya resheniya* [Normative and descriptive models of decision making]. M.: Nauka.
- Meskon, M., Al'bert, M., Hedouri, F. (2017). *Osnovy menedzhmenta* [Fundamentals of management]. M.: Vil'yams.
- Miester, J. (1979). *Ergonomicheskie osnovy razrabotki slozhnykh system* [Ergonomic basis for the development of complex systems]. M.: Mashinostroenie.
- Nadler, D. A., Hackman, J. R., Birdsall, T. G. (1971). *Managing Organizational Behavior*. Boston, Little Brown.
- Nikolaev, A. V., Karpov, A. V. (2000). Izuchenie regulatsionnoy osnovy otveta na vlastnoe vozdeystvie [Study of the regulatory basis of the response to power influence]. *Nauchnyy poisk. Iss. 1*. Yaroslavl': YarGU, 119–123.
- Parnell, G., Bresnick, T. et al. (2013). *Handbook of Decision Analysis*. John Wiley and Sons.
- Plunkett, L., Hale, G. (1979). *Vyrabotka i prinyatie upravlencheskikh resheniy* [Development and adoption of management decisions]. M.: Ekonomika.
- Raygorodskiy, D. (Ed.-comp.) (2016). *Psikhologiya i psikhoanaliz vlasti* [Psychology and psychoanalysis of power]. Samara: BAHRAH-M.
- Rysev, N. (2009). *Pravil'nye upravlencheskie resheniya. Poisk i prinyatie* [The right management decisions. Search and acceptance]. SPb.: Piter.
- Stoner, J. A. (1961). *A comparison of individual and group decision involving risk*. Unpublished master's thesis, MIT.
- Trofimov, V. V. (2013). *Metody prinyatiya upravlencheskikh resheniy* [Methods of making managerial decisions]. M.: Yurayt.



Personality resources and work motivation: A beneficial synergy

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Abstract. *Purpose.* The paper aims to show the motivational function of personality resources in the organizational context. Based on the Personality Potential model (Leontiev, 2011) and Self-Determination Theory (SDT), we hypothesized that personality resources facilitate productive motivation and engagement with the work environment, resulting in positive outcomes for the individual, as well as for the organization. We aimed to explore three research questions: 1) whether personality resources positively predict autonomous motivation and negatively predict controlled motivation, 2) whether work motivation mediates the effects of personality resources on well-being outcomes, and 3) whether personality resources and work motivation have synergistic effects on workplace well-being outcomes. *Study design.* We used data from two samples of employees of a Russian production enterprise using a cross-sectional design (Study 1, $N = 4,708$) and a longitudinal design with a two-year interval between measurements (Study 2, $N = 372$). The participants completed measures of personality resources (hardiness, dispositional optimism, generalized self-efficacy, tolerance for ambiguity), work motivation, and well-being outcomes (life satisfaction, job satisfaction, work-life balance, work engagement, organizational commitment). *Findings.* A single dimension of personality resources emerged as a positive predictor of autonomous motivation and a negative predictor of controlled motivation, both in the cross-sectional and in the longitudinal perspective. The change in well-being outcomes was mainly explained by autonomous motivation at Time 1. Using a moderated mediation model, we found that work motivation partially mediated the effects of personality resources on well-being outcomes and exhibited the theoretically predicted interaction effects on work-life balance, job satisfaction, and organizational commitment. *Value of the results.* The results are in line with the hypothesis about the motivating function of personality resources.

Keywords: Self-Determination Theory, hardiness, workplace well-being, work engagement, job satisfaction.

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Introduction

The concept of personality resources

The problem of personality dispositions underlying workplace well-being and performance has been the focus of attention in organizational attention for many decades. The term “resources” usually used to denote such dispositions came into psychology from economics and management theory, but nowadays plays an important role in the field. Modern theories take into account different kinds of resources: internal, external, economical, physical, labour, natural, cognitive, psychological, informational, etc. — virtually anything that can be used by human beings as means to be effective and to maintain life quality (Hobfoll, 1989).

According to resource theories (Hobfoll, 2011; Ivanova, 2013; Leontiev, 2016), resources of different types disposable by individual do not exist separately from one another, but are organized in a system. Resources of different types can be acquired or lost, exchanged or replaced by one another, and, finally, used with various degrees of efficiency. According to D. Leontiev (2016), any object or property is not by itself a resource, but only becomes a resource in the context of a certain goal or activity.

In the present paper, we focus on personality resources. We define personality resources at work as relatively stable personality dispositions that lead to optimal and sustained activity engagement and result in higher productivity and higher workplace well-being in most work situations. Unlike trait theory, which stresses the stable character of the personality core (Emmons, 1999), modern approaches to personal resources view them as relatively stable personality characteristics that evolve over one’s lifetime (Ivanova, Leontiev, Osin, Rasskazova, Kosheleva, 2018). This idea is supported by findings of various studies testing interventions aimed to develop personality resources, such as optimism (Seligman, 1998), hardiness (Maddi et al., 1998), psychological capital (Luthans et al., 2006).

D. Leontiev (2014) described four groups of dispositions conducive to optimal and sustained activity engagement, including resources of stability (attitudes and values which provide a sense of support, sustainable self-esteem, and inner grounds for decision making), resources of self-regulation (strategies of dynamic interaction with life circumstances), motivational resources (reflecting an energy supply available to the individual), and, finally, instrumental resources (such as abilities, skills, and competencies relevant for a specific activity). The term “personality resources” is typically only applied to the variables from the first three groups.

The functions of personality resources

A large number of studies focus on the role of personality resources at work showing that these variables are not only correlates, but also causes of well-being. Personality resources moderate the causal relationships between external circumstances and psychological outcomes (Wise, Stake, 2002; Xanthopoulou et al., 2007; Luthans et al., 2008; Mastenbroek et al., 2014). In the organizational context, special attention is paid to the efficacy of individuals at high-level management positions (Kalimo et al., 2002; Kalimo et al., 2003; Xantoupoulou et al., 2007; McDougall, Drummond, 2010), where personality resources were shown to be key predictors of well-being and performance.

Personality resources are positively associated with work engagement (Hakanen et al., 2006; Saks, 2006; Xanthopoulou et al., 2007; Kuhnel et al., 2012; Mandrikova, Gorbunova, 2012), which mediates their associations to workplace well-being. High levels of personality resources enable employees to keep a sustained level work of engagement even under stress and even when the level

of well-being is low (Hobfoll, Shirom, 1993). Personality resources help to cope with stress (Nelson, Simmons, 2003) and emerge as important predictors of successful workplace adaptation (Hobfoll, 1989; Judge, Bono, 2001). Emotional burnout is associated with low levels of personality resources, such as self-esteem, self-efficacy, and optimism regarding the future (Wells, Hobfoll, & Lavin, 1999; Garrosa et al., 2011).

But despite the promising findings at the level of specific variables, the field still experiences a lack of coherent theory of personality resources (Ivanova, Leontiev, Osin, Rasskazova, Kosheleva, 2018). Different studies use different dependent variables (well-being, motivation, performance) and fail to specify the “object” of personality resources or criteria for selection of candidate variables. This leads to a confusion, as the same variable, such as well-being, can be viewed as a resource and as an outcome variable in different studies (Fredrickson, 2004; Lubomirsky et al., 2005; Lebedeva, 2012). In order to overcome these contradictions, the functions of personality resources need to be specified.

Another issue lacking theoretical clarity is the problem of dynamics of personality resources: are these dispositions supposed to be stable or dynamic? The answer to this question defines whether such variables as emotional states or IQ can be viewed as personality resources. Even though the majority of the resource variables can be developed during the lifetime, they are still treated empirically as stable dispositions. Future theoretical work needs to clarify the conditions when certain types of resources can be considered as “stable” or “malleable.”

Despite the systemic character of personality resources (Hobfoll, 2011), researchers keep trying to find the “best” variables in terms of explaining human success in different settings. For instance, optimism and hardiness are often said to be the best predictors of well-being and coping with stress (Leontiev, 2011), but “best” is defined as having the most shared variance with these criteria. However, the causality and even the direction of these associations is rarely demonstrated. On the other hand, there is a tendency to look for a general factor of personality resources, which is reflected in such integral constructs as psychological capital (Luthans, Youssef, Avolio, 2007) or core self-evaluations (Judge, Erez, Bono, 1998; Judge et al., 2002). However, a general factor is hardly a substitute for substantive theory: in our opinion, such data-driven models fail to fill this gap. The shared variance between different constructs may reflect similarities in their respective empirical operationalizations or measurement procedures. We believe that a theory describing the systemic interactions between personality resources is badly needed.

One pathway toward arriving at such a theory was suggested by D. Leontiev (2011), who proposed the concept of the personality potential. He defines the personality potential as an integral systemic characteristic of individual psychological properties which underlies the capability of a personality to act based on stable inner criteria, to maintain one’s orientation towards meaning, and to remain effective under pressures and in changing circumstances. Thus, personality potential describes the capacity for effective and flexible self-regulation. Unlike other models, the personality potential model states that psychological properties only become “resources” when they can serve as means for a certain activity. Hence, the specific list of personality resources and the structure of their associations are supposed to differ in different situations.

The personality potential theory (Leontiev, 2011; Ivanova, Leontiev, Osin, Rasskazova, Kosheleva, 2018) suggests that personality resources may be linked to positive outcomes via different pathways. First, they sustain motivation for activity by facilitating engagement and interaction with the environment. Second, they buffer against the detrimental effects of stress and challenges (by reducing the evaluation of stressors, by improving the evaluation of coping resources, increasing the motivation for active coping, providing additional coping resources). Third, they are associated with more effective self-regulation at different stages of activity execution. Finally, certain personality

resources may have specific instrumental functions relevant to specific activities or stages of their implementation.

The present study

In the present study, we aim to test the hypothesis about the motivating function of personality resources in the work context. Existing studies based on Self-Determination Theory (SDT) (Ryan, Deci, 2000), a leading research approach in the field, undertaken in the work context have mainly focused on the positive effects of autonomous and the negative effects of controlled work motivation on organizational outcomes, as well as the effects on job characteristics and management practices on autonomous work motivation (Ryan, Deci, 2017).

Within SDT, autonomous and controlled motivation is typically studied separately from personality dispositions that may be related to the emergence of motivation. One study (Ratelle, Vallerand, Chantal, Provencher, 2004) using a prospective design in a general population sample found that three variables reflecting constructive cognitions or cognitive adaptation (positive self-perceptions, perceptions of control, and dispositional optimism) predict self-determined motivation in a one-year perspective and that motivation mediates the effects of these variables on well-being.

We aim to test a similar hypothesis in the organizational context, bringing together SDT with the personality resource approach to investigate the relationships between personality resources, work motivation, and work well-being outcomes. We present two empirical studies aimed to explore three research questions: 1) Are higher levels of personality resources associated with more productive (more autonomous and less controlled) patterns of work motivation? 2) Does work motivation mediate the effects of personality resources on well-being outcomes? 3) Do personality resources and work motivation exhibit synergistic effects on workplace well-being?

We chose four personality resource variables, which reflect positive beliefs about oneself and the world and are not specific to the work context, dispositional optimism, hardiness, generalized self-efficacy, and tolerance for ambiguity. First, we expected that individuals high in these beliefs would be more likely to engage actively with the work environment and to be more selective in their choice of work situations and environments, resulting in higher levels of autonomous and lower levels of controlled motivation. Second, we expected that work motivation would mediate the positive effects of personality resources on well-being outcomes: this expectation was based on the idea that personality resources only exhibit their positive effects when they are utilized in activity, which is supported by motivation. Finally, we expected that the effects of work motivation on workplace well-being outcomes would be moderated by personality resources: on the one hand, resources may be instrumental in facilitating the pursuit of autonomous goals resulting in higher well-being; on the other hand, they may buffer against the detrimental effects of controlled motivation on well-being by various pathways (e.g., by facilitating the choice of intrinsic goals and satisfaction of basic psychological needs in non-work activities).

Thus, the aim of our studies was to investigate the interplay of personality resources and work motivation in predicting subjective well-being of organization employees. Study 1 used a cross-sectional design in a large sample. Study 2 used a prospective design based on a follow-up survey in the same organization two years later.

Study 1

The aim of Study 1 was to investigate the interactive effects of personality resources and work motivation in a large sample using a cross-sectional design.

Methods

Sample

The sample was comprised by 4,708 employees of a large energy generating enterprise with 20 local branches in six regions of Central and North-West Russia. The demographic composition of the sample is presented in Table 1. The average experience of work in the same company was 13.32 years ($SD = 10.21$), the average experience of work in the same position was 9.88 years ($SD = 9.30$).

Table 1. Demographic composition of Study 1 ($N = 4708$) and Study 2 ($N = 372$) samples

Demographic	Value	Study 1, N (%)	Study 2, N (%)
Gender	Male	3,106 (65.97%)	223 (59.95%)
	Female	1,602 (34.03%)	149 (40.05%)
Age	18-29	732 (15.55%)	87 (23.29%)
	30-39	1,146 (24.34%)	117 (31.45%)
	40-49	1,344 (28.55%)	104 (27.96%)
	50-59	1,220 (25.91%)	61 (16.40%)
	60-75	259 (5.50%)	3 (0.81%)
Education	Secondary, 9- or 11-years	741 (15.74%)	22 (5.91%)
	Professional school	1,806 (38.36%)	103 (27.69%)
	Degree / some university	1,983 (42.12%)	218 (58.60%)
	Second degree / PhD	177 (3.76%)	29 (7.80%)
Position in company	Blue-collar workers	2,570 (54.59%)	132 (35.48%)
	White-collar specialists	1,236 (26.25%)	134 (36.02%)
	Mid-level managers	612 (13.00%)	73 (19.62%)
	High-level managers	290 (6.16%)	33 (8.87%)

Procedure

Data were collected using an anonymous computerized survey. HR managers of each division approached employees, asking them to participate in an anonymous research survey of psychological climate in the organization conducted by an independent research team. The survey was carried out on dedicated computerized workplaces, in isolated rooms. In order to control for position effects, the questionnaires were presented in random order to each participant. The response rate was more than 80% of permanent staff.

Instruments

We used four measures of personality resources:

Brief Hardiness Test (Osin, Rasskazova, 2013), based on PVS-III (Maddi, Khoshaba, 2001), a 24-item measure with a four-point response scale, comprised by items tapping into three constructive beliefs, commitment (a preference for active participation in the whatever is going on), control (a belief that one is able to influence the outcome of events), and challenge (a tendency to view problems and adversity as learning opportunities rather than as threats to be avoided at all costs) ($\alpha = .91$).

Dispositional Optimism Test (Gordeeva, Osin, Sychev, 2010) based on Life Orientations Test (Scheier, Carver, 1985) with eight items reflecting generalized positive expectations about the future and life in general. We used five-point response scale for this study ($\alpha = .86$).

Brief Ambiguity Tolerance Scale, based on MSTAT-I (McLain, 1993; Lukovitskaya, 1998; Osin, 2010), which measures acceptance of and attraction to ambiguous (new, unpredictable or complex) stimuli. Nine items (8, 10, 12, 14, 16, 17, 18, 19, 22) with high factor loadings reflecting different facets of the construct were chosen from the Russian version of MSTAT-I and administered with a five-point response scale. In the present sample, one item (16) failed to show a significant factor loading and was removed. After adding an error covariance for two reverse-scored items, a single-

factor model fit the data well (MLM: $\chi^2(19) = 244.72$, $p < .001$, $CFI = .963$, $RMSEA = .050$ [.045–.056], $SRMR = .026$) ($\alpha = .77$).

Generalized Self-Efficacy Scale (Schwarzer, Jerusalem, 1995; Schwarzer, Jerusalem, Romek, 1996), a 10-item instrument with a four-point response scale measuring perceived belief in one's ability to achieve one's goals and cope with difficulties ($\alpha = .91$).

To measure work motivation, we used the *Professional Motivation Questionnaire* (Osin, Ivanova, Gordeeva, 2013) based on Self-Determination Theory (SDT) with a five-point response scale and indices of intrinsic motivation ($\alpha = .93$), identified extrinsic motivation ($\alpha = .86$), external extrinsic motivation ($\alpha = .82$), and amotivation ($\alpha = .64$). According to SDT, intrinsic and identified extrinsic motivation are autonomous forms of motivation, whereas external extrinsic motivation is a controlled one. Amotivation can also be considered as a controlled form of motivation in situations when the activity is already being carried out by the subject without his/her conscious engagement.

Because of their simplex structure, questionnaires based on the SDT model permit three types of scoring (Sheldon et al., 2017; Osin et al., 2017): using the scales independently, calculating the general indices of autonomous and controlled motivation, or calculating the Relative Autonomy Index (RAI), which reflects the overall quality of motivation (a relative dominance of autonomous motivation over controlled motivation) and is complemented by the mean score across the scales, which may be interpreted as motivation strength or acquiescence. The latter two scoring models are mathematically equivalent in terms of the variance they capture.

To calculate the RAI, we first mean-centered the scores on the motivation scale based on individual mean and inverted the controlled motivation items; the resulting index was reliable ($\alpha = .91$). The indices of autonomous motivation ($\alpha = .90$) and controlled motivation ($\alpha = .81$) were calculated as averages across autonomous and non-inverted controlled motivation items.

To measure workplace well-being, we used several measures:

Satisfaction with Life Scale (SWLS: Diener, Emmons, Larsen, Griffin, 1985; Russian version by D. Leontiev: see Osin, Leontiev, 2008). Includes five items reflecting a positive cognitive evaluation of one's life as a whole, rated on a five-point scale ($\alpha = .83$).

Utrecht Work Engagement Scale (UWES: Schaufeli, Bakker, 2003; Lovakov, Agadullina, Schaufeli, 2017). The short version of the scale includes nine items rated on a seven-point scale and tapping into three dimensions of work engagement, vigor, dedication, and absorption. In the present study, we excluded one item ("I get carried away when I'm working") at the request of HR specialists, because the Russian formulation was perceived literally by employees with low levels of education. We only used the general index of work engagement ($\alpha = .94$).

Job Satisfaction Scale (JSS: Ivanova, Rasskazova, Osin, 2013). Comprised of 19 items rated on a five-point scale, this instrument measures satisfaction with salary ($\alpha = .86$), work conditions and organization ($\alpha = .74$), management ($\alpha = .66$), colleagues ($\alpha = .76$), and job process and content ($\alpha = .83$). An overall index of job satisfaction can also be calculated ($\alpha = .88$).

Organization Commitment Questionnaire (OCQ: Porter, Smith, 1970; Russian version by Dominyak, 2006). The measure contains 15 items rated on a seven-point scale ($\alpha = .85$).

Brief Work-Life Balance Scale (BWLBS: Mospan, 2014; based on Hayman, 2005). This brief instrument includes seven items rated on a five-point response scale comprising two dimensions measuring perceived lack of work-life balance: work interferes with life, or work/life imbalance ($\alpha = .90$) and life interferes with work, or life/work imbalance ($\alpha = .83$).

Results

During the preliminary data quality checks we excluded the responses of individuals who gave the same answer to all the items of the Professional Motivation Scale ($N = 73$) or two or more measures of personality resources ($N = 371$), resulting in $N = 4298$. Next, we investigated the associations of personality resources with work motivation indices. The resulting correlations are shown in Table 2.

Table 2. Pearson correlations of personality resources and work motivation scales ($N = 4,298$)

Variables	1	2	3	4	5	6	7	8	9	10
1. Optimism										
2. Self-Efficacy	.45									
3. Tolerance for Ambiguity	.31	.42								
4. Hardiness	.59	.52	.35							
5. Intrinsic motivation	.27	.22	.16	.39						
6. Identified regulation	.32	.23	.21	.38	.65					
7. External regulation	-.37	-.21	-.23	-.46	-.38	-.36				
8. Amotivation	-.32	-.15	-.12	-.43	-.43	-.38	.56			
9. Autonomous motivation	.32	.25	.21	.42	.85	.95	-.40	-.44		
10. Controlled motivation	-.39	-.21	-.21	-.50	-.45	-.41	.92	.83	-.47	
11. RAI	.42	.27	.25	.54	.77	.80	-.76	-.73	.87	-.85

Note: all the coefficients are significant at $p < .001$.

All the four measures of personality resources showed positive and significant intercorrelations. To test whether these four scales could be treated as indicators of a single factor, we tested a simple single-factor CFA model (Mplus 7.4, MLM estimator), which showed acceptable fit ($\chi^2(2) = 118.23$, $CFI = .970$, $RMSEA = .115$, $SRMR = .030$). Hardiness exhibited the strongest loading on the common factor ($R^2 = .63$, $\lambda = .80$), followed by optimism ($R^2 = .51$, $\lambda = .71$), self-efficacy ($R^2 = .44$, $\lambda = .67$), and tolerance for ambiguity ($R^2 = .23$, $\lambda = .48$). We used regression-based factor score estimates in subsequent analyses where we treated personality resources as a single dimension.

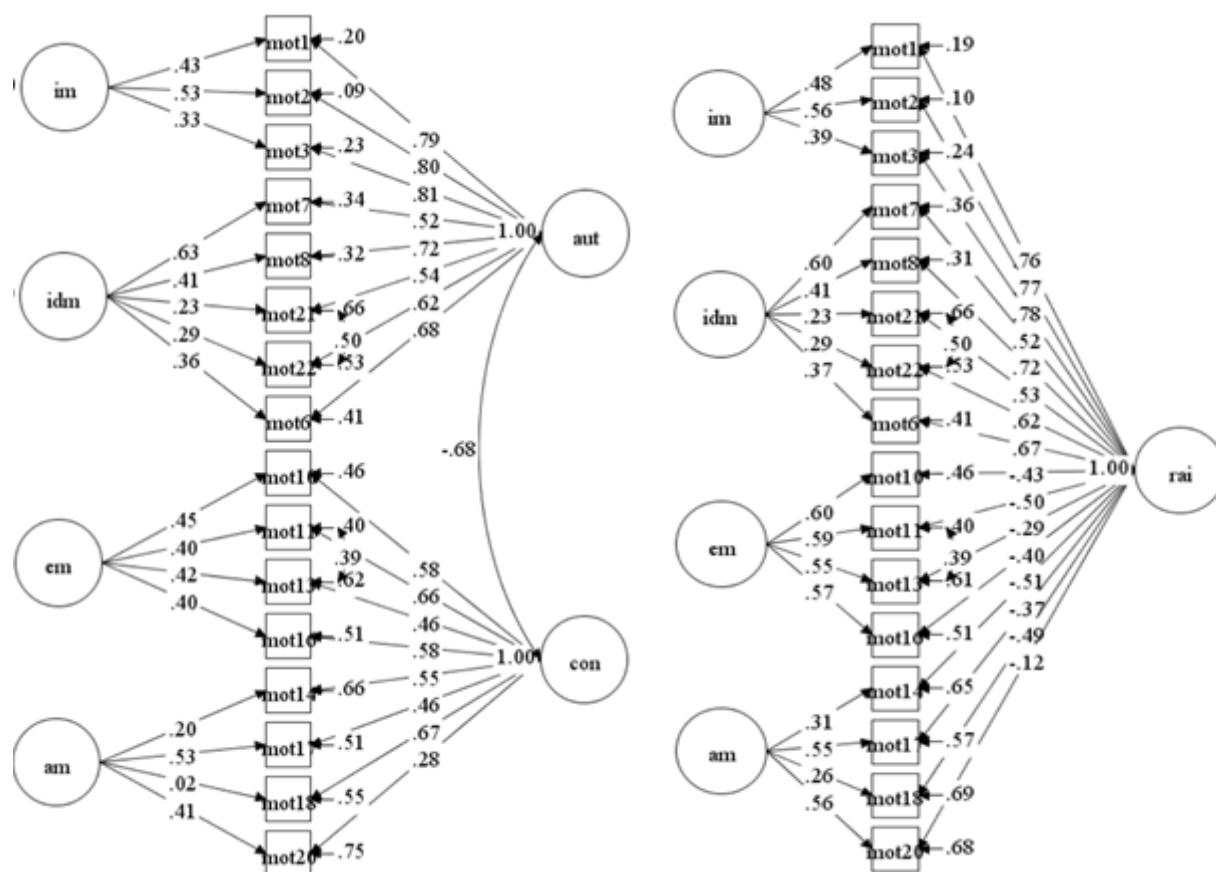
To confirm the validity of the Relative Autonomy Index (RAI), we tested a measurement model (model 1) with four first-order factors corresponding to different motivation types, an alternative model with a single second-order factor (model 2), and two bifactor models (Howard et al., 2016) with four uncorrelated specific factors corresponding to different motivation types and either a single global factor (RAI, model 3) or two correlated global factors (autonomous and controlled motivation, model 4).

The fit indices for all the models tested are shown in Table 3. Both bifactor models fit the data well with better practical fit indices than those shown by the measurement model and the alternative model. The parameters of the two resulting bifactor models are presented on Figure 1. The loadings of variables on the two global factors were statistically significant in both models, supporting the validity of the RAI and of autonomous and controlled motivation indices.

Table 3. Structural models for the 16-item Professional Motivation Questionnaire

Model	$\chi^2(df), p$	CFI	RMSEA (90% CI)	SRMR
1. Four first-order factors	1305.91 (96), $p < .001$	.962	.052 (.050 – .055)	.044
2. Single second-order factor	1886.88 (98), $p < .001$	.943	.063 (.060 – .065)	.064
3. Bifactor model (4 + 1 factors)	1245.38 (86), $p < .001$	.963	.054 (.051 – .057)	.055
4. Bifactor model (4 + 2 factors)	751.92 (85), $p < .001$	.979	.041 (.038 – .044)	.036

Personality resources showed weak to moderate positive associations with autonomous motivation, as well as the RAI, and negative associations of similar magnitude with controlled motivation (see Table 2). To investigate whether these effects of personality resources were due to their shared variance or peculiar to certain resources, we performed a series of multiple regression analyses comparing the variance explained by the general factor of personality resources and the four individual scales comprising it (the tolerance values were above .56 for all variables, suggesting acceptable amount of multicollinearity).



Note. IM — intrinsic motivation, IDM — identified regulation, EM — external regulation, AM — amotivation, AUT — autonomous motivation, CON — controlled motivation, RAI — Relative Autonomy Index.

Figure 1. Standardized parameters of the bifactor models three (left) and four (right)

The results of these analyses are provided in Table 4. The amount of variance of autonomous motivation explained by the individual personality resources was comparable to that explained by the general factor. However, in the case of controlled motivation and the RAI individual personality captured a larger amount of variance, compared to the general factor. For these criteria we found a paradoxical effect of self-efficacy (discussed below). Consistent with its highest loading on the common factor, hardiness emerged as the strongest predictor of work motivation variables, but the contributions of the other three resource variables were also significant.

Table 4. Personality resources as predictors of work motivation

	Autonomous motivation	Controlled motivation	RAI
Model 1, R^2	.19***	.28***	.31***
β , Optimism	.11***	– .17***	.16***
β , Self-Efficacy	.00	.12***	– .07***
β , Tolerance for Ambiguity	.06***	– .05**	.06***
β , Hardiness	.34***	– .45***	.46***
Model 2, R^2	.18***	.23***	.27***
β , PR Factor	.42***	– .47***	.52***

Note: *** $p < .001$, ** $p < .01$.

We proceeded by investigating the associations of personality resources and work motivation with dependent variables. Because the effects of the two autonomous and of the two controlled motivation types were substantially similar, for brevity we only used summary indices of autonomous and controlled motivation. The resulting correlations are presented in Table 5.

Table 5. Zero-order correlations of personality resources and work motivation with outcome variables

	PR	Optimism	Self-efficacy	Toler. for ambig.	Hardiness	AM	CM	RAI
SWLS: Life Satisfaction	.41	.36	.22	.13	.42	.41	– .28	.40
BWLBS: Work/life	– .25	– .19	– .12	.02 ^x	– .32	– .24	.26	– .29
BWLBS: Life/work	– .31	– .25	– .15	– .04 ^x	– .36	– .17	.33	– .29
OCQ: Commitment	.41	.35	.23	.15	.41	.68	– .42	.64
UWES: Engagement	.42	.33	.28	.21	.41	.56	– .37	.55
JSS: Salary	.21	.18	.05	.07	.24	.45	– .22	.40
JSS: Work conditions	.37	.33	.17	.13	.39	.54	– .34	.52
JSS: Management	.40	.31	.20	.12	.45	.43	– .35	.46
JSS: Colleagues	.41	.31	.31	.14	.40	.33	– .26	.35
JSS: Work process	.49	.36	.33	.28	.46	.70	– .43	.67
JSS: Total	.50	.41	.28	.21	.52	.71	– .45	.68

Note: all the associations, except for those marked ^x, are significant at $p < .001$. PR = personality resources factor, AM = autonomous motivation, CM = controlled motivation, RAI = Relative Autonomy Index.

The associations of various personality resources with the outcome variables were all in the same direction, consistent with the theoretical expectations (except for the two non-significant associations of tolerance for ambiguity with work-life balance). The effects for hardiness were generally the strongest and comparable in magnitude to the effects exhibited by the general factor of personality resources. Autonomous motivation and the RAI were consistently associated with well-being, whereas controlled motivation was consistently associated with ill-being. Predictably, the associations of work motivation with domain-specific well-being measures (organizational commitment, work engagement, job satisfaction) were stronger than the corresponding effects of personality resources.

Finally, to test the interactive effects of personality resources and work motivation we tested a series of moderated mediation models (Preacher, Rucker, Hayes, 2007) in Mplus. In these models (see Figure 2), the effect of personality resources on the outcome variable was mediated by autonomous and controlled motivation and two corresponding interaction terms between personality resources and motivation were entered (Preacher et al., Model 1). Predictors were centered prior to analysis and the error terms of autonomous and controlled motivation were allowed to covary with each other and with their respective interaction terms, resulting in saturated models.

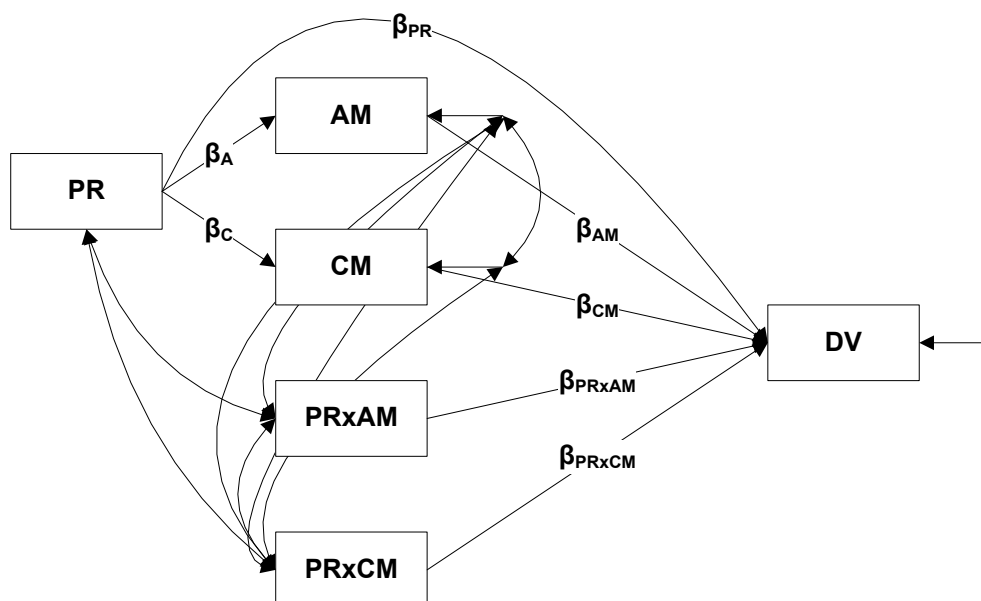


Figure 2. The prototypical moderated mediation model

The same prototypical model was tested for each dependent variable in turn. The standardized estimates of the effects of personality resources on autonomous and controlled motivation, β_A and β_C , were .42 and — .47, respectively, in all models. The standardized estimates of the five effects of predictors on each dependent variable are shown in Table 6. To test the significance of the interaction effects we used Wald test comparing the saturated model with a more restrictive one, where both regression coefficients of the interaction terms were constrained to zero.

To evaluate the proportion of personality resource variance mediated by work motivation for each dependent variable, we calculated PM (see Preacher, Kelley, 2011), the ratio of the total indirect effect of personality resources on the DV ($\beta_A * \beta_{AM} + \beta_C * \beta_{CM}$) to the total effect (sum of the direct and all the indirect effects). The significance of the total indirect effect is given in the PM column.

Table 6. Parameter estimates of the moderated mediation models

Dependent variable	Predictor, β					R^2	PM	Wald test, $\chi^2(2)$
	PR	AM	CM	PR x AM	PR x CM			
SWLS	.28***	.29***	-.01	.02	.02	.24***	.31***	2.28
BWLBS: Work	-.14***	-.13***	.13***	-.06**	-.06**	.10***	.46***	11.76**
BWLBS: Life	-.20***	.03	.25***	-.08***	-.09***	.15***	.34***	27.65***
OCQ	.13***	.59***	-.07***	.08***	.03	.49***	.68***	26.45***
UWES	.20***	.48***	-.07***	-.02	.04*	.37***	.52***	16.12***
JSS: Salary	.02	.45***	-.01	.08***	.03	.21***	.90***	21.65***
JSS: Condit.	.17***	.46***	-.05**	.05**	-.01	.33***	.56***	14.38***
JSS: Manag.	.24***	.28***	-.11***	.07***	.03*	.26***	.41***	17.24***
JSS: Colleagues	.33***	.19***	-.02	.03	-.01	.20***	.21***	5.13
JSS: Process	.21***	.58***	-.06***	-.02	.00	.54***	.56***	1.91
JSS: Total	.23***	.59***	-.06***	.06***	.01	.56***	.54***	16.99***

Note: *** $p < .001$, ** $p < .01$, * $p < .05$. PR — Personality resources factor, AM — autonomous motivation, CM — controlled motivation. ΔR^2 — difference in variance explained by the models with and without the two interaction terms.

Personality resources and work motivation characteristics emerged as significant independent predictors of all outcome variables, except for life/work imbalance and satisfaction with salary. Predictably, the effects of work motivation were generally stronger for domain-specific dependent variables (organizational commitment, work engagement, job satisfaction). The direction of main

effects of personality resources and work motivation was consistent with the expectations (positive effects for personality resources and autonomous motivation and negative effects of controlled motivation on well-being variables, and vice versa for the only two ill-being variables, namely, BWLBS subscales).

The interaction effects of personality resources and work motivation emerged as significant for most variables, except for satisfaction with life, colleagues, and work process. The effects of the interaction term of personality resources and autonomous motivation were positive for the well-being variables and negative for ill-being variables, suggesting that employees with high levels of personality resources and high levels of autonomous work motivation in combination are more likely to be committed to the organization, satisfied with their salary, management, as well as work conditions, and tend to experience lower levels of conflict between the demands of their job and personal life. The effects of the interaction term of personality resources and controlled motivation were weaker and in the same direction (opposite to that of the main effects of controlled motivation), indicating that in employees with high levels of personality resources the negative main effects of controlled motivation on work engagement, satisfaction with management, and work-life balance are less pronounced.

Discussion

The findings of correlational analyses and confirmatory factor analyses indicate that personality resources are positively interrelated, with hardiness showing the strongest contribution to the common factor and tolerance for ambiguity being the most distinct from the other three variables. This finding is in line with the hypothesis about the systemic organization of personality resources proposed by the personality potential theory. Indeed, the very fact that different constructive beliefs tend to come together is not new and hardly surprising. However, it suggests that existing integral conceptions of personality resources (such as psychological capital or core self-evaluations) based on this empirical fact should only be seen as first steps towards more comprehensive theoretical models that would explain the similarities and the differences between various resource variables and their respective effects on well-being and performance in various contexts.

We found that personality resources are positively associated with autonomous work motivation, suggesting that employees with higher levels of hardiness, optimism, tolerance for ambiguity, and self-efficacy may find it easier to discover something of interest in their work process or to find a personal meaning of their work (i.e., integrate their work motivation). Another potential cause of these associations could be a selection effect: employees with higher levels of personality resources might be more likely to get promoted to higher positions based on their performance and might be more active in abandoning controlled and dissatisfying job settings to engage in more autonomously motivated and personally satisfying jobs. In contrast, individuals with lower levels of personality resources may be more likely to get stuck in jobs that they do not enjoy but lack the courage or motivation to change. Personality resources were positively associated with hierarchical position in company ($r = .16, p < .001$) and inversely associated with the number of years spent working in the same position ($r = -.15, p < .001$); these associations remained significant after controlling for employee age ($r = .16$ and $r = -.08$, respectively, $p < .001$), suggesting that both effects may take place. Longitudinal studies are needed to disentangle them reliably. We interpret these findings as evidence of the motivational function of personality resources.

Because we used existing measures of personality resources modelled as observed variables, differences in measurement reliability and in response bias, such as acquiescence, may have contributed to the picture. Thus, we believe that the paradoxical effect of self-efficacy on motivation

may be explained by response bias. The other three scales include a sizeable proportion of reverse-scored items (70.1%, 50%, and 25% for the hardiness, optimism, and tolerance for ambiguity measures, respectively), whereas the self-efficacy scale is the only one to be comprised entirely by non-reverse-scored items; hence, its unique variance (non-shared with the other three personality resources) may also include the effects of response bias. Because controlled motivation items are, essentially, reverse-scored, it is not surprising that only the unique (acquiescence) variance of self-efficacy shows a positive association here. Future studies could develop dedicated balanced measures of personality resources and of dependent variables in order to reliably separate the specific variance of different personality resources from item direction effects. Rigorous approach to data screening and measures to control for social desirability could further refine the findings.

The interaction effects of personality resources and work motivation suggest that variables from these two groups may have synergistic effects on workplace well-being outcomes. As a tentative causal interpretation, we believe that personality resources may be utilized more actively by autonomously motivated individuals, leading to more satisfying outcomes. In turn, personality resources may buffer against the detrimental effects of controlled motivation on well-being outcomes by enabling individuals to cope better even with work that is rather boring or meaningless. The effect sizes for these moderation effects were not strong: Cohen's f^2 ranged from .003 to .010 for significant effects (median $f^2 = .005$). However these effect sizes even exceed those typically found in applied psychology studies (Aguinis, Beaty, Boik, Pierce, 2005) and suggest that large samples are needed to detect them with sufficient statistical power.

Study 2

Study 2 aimed to extend the findings of Study 1 by using a prospective design. We intended to explore two research questions: 1) Do personality resources predict sustained autonomous motivation? 2) Do personality resources and work motivation exhibit interactive effects in predicting well-being in the long term?

Methods

Sample and procedure

The sample was comprised by respondents who participated in a follow-up study two years later, following a change of company CEO and the management team. The second study had the same aims and procedure. Because the survey was anonymous, no identifiers were provided by the respondents and we matched individual scores across two occasions based on a combination of demographic characteristics. Only the data of respondents who could be matched unambiguously ($N = 372$) were retained for longitudinal analyses. Based on the same screening procedure as in Study 1, data of 27 respondents were excluded, resulting in the remaining sample size of $N = 345$.

Instruments

The Time 1 (T1) instruments measuring personality resources are described in Study 1 above. Below we describe the scales used at Time 2 (T2). As the longitudinal design was not envisioned initially, some versions of the instruments differed at T1 and T2 and we only used subsets of items with exactly the same formulations at both measurement occasions. The reliabilities of all the resulting measures at both occasions are given in Table 7.

Satisfaction with Life Scale (SWLS: Diener et al., 1985; Russian version: Osin, Leontiev, 2008) and *Utrecht Work Engagement Scale* (UWES: Schaufeli; Russian version: Kutuzova) were the same as in Study 1.

Professional Motivation Questionnaire. The revised version (Osin et al., 2017) of the measure contained only 3 intrinsic motivation (IM) items (“...because I like my work”, “...because I find the process of my work interesting”, “...because I enjoy working here”) and 2 external regulation (EM) items (“...because I have no choice but to work here”, “...because I am afraid I won’t find another job”) from the old version used at T1.

Organizational Commitment Questionnaire. Items 2, 5, 6, and 8 from the Organizational Commitment Questionnaire (Mowday, Steers, Porter, 1979) were chosen for the follow-up study based on their factor loadings and substantive content.

Job Satisfaction Scale. The revised version of the measure (Ivanova, Osin, Rasskazova, in preparation) contained 17 out of 19 items administered at T1. Two items were dropped from the subscale measuring satisfaction with job conditions.

Results

The scale reliabilities and differences between the scores at two measurement occasions are summarized in Table 7. The data reflected a decrease in intrinsic motivation, satisfaction with salary, management, and work process, combined with an increase in extrinsic motivation (attributed to background effects). The sizes of these effects, however, are small ($d < .30$).

Table 7. Reliabilities and descriptive statistics across two measurement occasions ($N = 372$)

Scale	No. items	2011		2013		Student t	Cohen's d
		α	$M (SD)$	α	$M (SD)$		
SWLS	5	.83	3.90 (1.03)	.87	3.94 (1.11)	.74	.04
UWES	8	.95	4.25 (1.60)	.94	4.15 (1.51)	1.17	– .06
IM	3	.94	3.90 (0.96)	.91	3.75 (1.01)	2.75**	– .15
EM	2	.78	2.10 (1.09)	.68	2.31 (1.04)	3.69***	.20
JSS: Salary	4	.88	2.90 (0.96)	.92	2.77 (1.05)	2.75**	– .14
JSS: Conditions	2	.67	3.28 (0.97)	.74	3.28 (1.02)	.11	.01
JSS: Management	3	.64	3.59 (0.84)	.65	3.43 (0.87)	3.81***	– .20
JSS: Colleagues	3	.81	4.27 (0.54)	.76	4.24 (0.56)	.99	– .05
JSS: Work Process	5	.84	3.96 (0.69)	.85	3.74 (0.73)	5.65***	– .30
Org. Commitment	4	.81	4.25 (1.12)	.90	4.17 (1.30)	1.38	– .07

Note: *** $p < .001$, ** $p < .01$.

We proceeded by testing a series of multiple regression models. First, we tested the models where personality resources at T1 predicted change in motivation scores from T1 to T2. To do this, we entered the scores on dependent variable at T1 as a predictor at the first step, followed by the T1 latent score estimate for the personality resources factor at the second step, in order to see if it would capture additional variance.

The results are summarized in Table 8. Higher level of personality resources at T1 predicted an increase in intrinsic motivation and a decrease in external regulation at T2, as well as increase in work engagement, satisfaction with colleagues, and satisfaction with work process. Additional analyses revealed that these effects of personality resources on work motivation were mostly associated with hardiness.

At the next step we investigated whether personality resources and work motivation characteristics at T1 would exhibit interactive effects in predicting the same set of dependent variables at T2. We entered the T1 score on the dependent variable at step 1, followed by T1 personality resources and work motivation variables at Step 2, and two interaction terms between personality resources and work motivation at Step 3. To avoid multicollinearity, the predictors were centered prior to calculation of the interaction terms.

Table 8. Personality resources at T1 predicting change in dependent variables

Dependent variable (T2)	Step 1		Step 2		
	ΔR^2	T1 DV, β	ΔR^2	T1 DV, β	T1 PR, β
Satisfaction with Life	.244***	.49***	.003	.46***	.06
Intrinsic motivation	.246***	.50***	.020**	.44***	.15**
External regulation	.244***	.49***	.020**	.42***	-.16**
UWES Work Engagement	.244***	.49***	.010*	.45***	.11*
Organizational Commitment	.318***	.56***	.003	.54***	.06
JSS: Salary	.273***	.52***	.000	.53***	-.01
JSS: Work Conditions	.323***	.57***	.000	.57***	.01
JSS: Management	.268***	.52***	.001	.51***	.04
JSS: Colleagues	.150***	.39***	.036***	.30***	.21***
JSS: Work Process	.249***	.50***	.010*	.44***	.12*
JSS: Total	.353	.59***	.000	.59***	.01

Note: *** $p < .001$, ** $p < .01$, * $p < .05$. DV = Dependent variable, PR = personality resources factor.

The results are presented in Table 9. In line with the previous analysis, personality resources predicted an increase in satisfaction with colleagues. Controlling for the differences in personality resources, autonomous motivation predicted increased work engagement, satisfaction with the process of work, and satisfaction with work conditions two years later. Because we failed to find any significant effects for the interaction terms, the results of Step 3 are not shown.

Table 9. Personality resources and work motivation at T1 predicting change in dependent variables

Dependent variable (T2)	Step 1		Step 2				
	ΔR^2	T1 DV, β	ΔR^2	T1 DV, β	T1 PR, β	T1 AUT, β	T1 CON, β
Satisfaction with Life	.244***	.49***	.006	.44***	.06	.06	.02
Work Engagement	.244***	.49***	.064***	.31***	.05	.28***	-.02
Org. Commitment	.318***	.56***	.008	.49***	.03	.09	-.02
JSS: Salary	.273***	.52***	.007	.49***	-.05	.09	-.02
JSS: Work Conditions	.323***	.57***	.019*	.51***	-.06	.14*	-.05
JSS: Management	.268***	.52***	.011	.47***	-.02	.04	-.11
JSS: Colleagues	.150***	.39***	.044***	.28***	.16**	.06	-.07
JSS: Work Process	.249***	.50***	.043***	.27***	.07	.23**	-.07
JSS: Total	.353***	.59***	.007	.52***	-.02	.08	.06

Note: *** $p < .001$, ** $p < .01$, * $p < .05$.

Discussion

The findings of the longitudinal study corroborate the Study 1 results showing the motivational function of personality resources. We found that individuals with higher levels of personality resources at the outset were more likely to maintain their intrinsic work motivation in the long term and less likely to develop external regulation two years later. These individuals were also more likely to remain engaged into their work process and satisfied with it, enjoying their relationships with colleagues. These effects of personality resources were particularly evident against the general backdrop of decreasing workplace well-being due to organizational change and other potential background effects. These findings are reminiscent of the results obtained by S. Maddi in the Illinois Bell study (Maddi, 2002) and suggest that interventions aimed at the development of personality resources (in particular, hardiness) may indeed make employees more resilient in stressful settings.

Controlling for personality resources, we also found that employees who were autonomously motivated at Time 1 were more likely to remain engaged into their work and satisfied with it two years

later. These findings were limited by the modest measurement reliability of our reduced measures (particularly, some subscales of the Job Satisfaction Scale and external regulation scale based on overlapping items chosen from two different versions of the Professional Motivation Questionnaire). The fact that we failed to find any significant interaction effects of personality resources with work motivation is hardly surprising, given the relatively small sizes of these effects in combination with the modest Study 2 sample size. Unfortunately, these limitations were hardly avoidable, given that a longitudinal design was not envisioned at the outset.

Future studies could overcome these limitations by planning for longitudinal comparisons and utilizing more rigorous procedures to ensure respondent identification (while preserving anonymity). In order to test for the mediation of the effects of personality resources by work motivation, a longitudinal design with three measurements, albeit at shorter temporal intervals, would be preferable.

General discussion

The findings of the two studies described above indicate that personality resources may facilitate sustained and productive work motivation even under stressful settings associated with an overall decline of well-being. The measures of personality resources that we used are general, rather than domain-specific, like psychological capital. In Study 1 we found that hardiness, optimism, and generalized self-efficacy share 44 to 63% of their individual variance, with tolerance for ambiguity being more distinct.

The effects of these variables were typically similar and we focused on the general effects of personality resources by treating them as a single latent dimension. The differences in the effects of these variables that we discovered in multiple regression analyses can be explained either by differences in the constructs or measurement procedures. In order to reliably separate the common variance of personality resources from their specific variance, new, more refined measures are needed, to control for unequal reliability and response bias.

The specific mechanisms of these effects of personality resources on work motivation need to be clarified in future theoretical and empirical work. Does autonomous work motivation emerge as a result of more active interaction with the work environment facilitated by personality resources, enabling individuals to find more interest in their jobs and to satisfy their basic psychological needs? Can personality resources facilitate cognitive integration of work motivation, leading to a more positive functioning even under controlling settings? Do personality resources protect individuals from the harmful effects of need-thwarting factors by means of active coping or cognitive restructuring? These questions call for future research, placing the effects and variables described within Self-Determination Theory into a larger nomological network of personality resource variables.

The limitations of the studies include the use of self-report measures and, in case of Study 2, modest sample size, resulting in low power to discover the interaction effects found in Study 1. However, we believe that the two studies presented constitute a sound preliminary evidence in favour of the positive effects of the combination of personality resources and work motivation and call for more investigation using various organizational settings, measures, and more rigorous research designs.

References

- Aguinis, H., Beaty, J. C., Boik, R. J., Pierce, C. A. (2005). Effect size and power in assessing moderating effects of categorical variables using multiple regression: a 30-year review. *Journal of Applied Psychology, 90*, 94–107.
- Dominyak, V. I. (2006). *Organizacionnaya loyal'nost': model' realizacii ozhidanii rabotnika ot svoei organizacii* [Organizational commitment: A model of employee expectation fulfilment by the organization]. Ph.D. thesis. Saint-Petersburg: Saint-Petersburg State University, 2006.
- Emmons, R. A. (1999). *The psychology of ultimate concerns: Motivation and spirituality in personality*. Guilford Press.
- Fredrickson, B. (2004). The broaden-and-build theory of positive emotions. *Philosophical Transaction, 359*, 1367–1377.
- Garrosa, E., Moreno-Jimez, B., Rodriguez-Munoz, A., Rodriguez-Garvajal, R. (2011). Role of stress and personal resources in nursing: A cross-sectional study of burnout and engagement. *International Journal of Nursing Studies, 48*, 479–489.
- Gordeeva, T. O., Osin, E. N., Suchkov, D. D., Ivanova, T. Yu., Sychev, O. A., Bobrov, V. V. (2016). Samokontrol' kak resurs lichnosti: Diagnostika i svyazi s uspešnostyu, nastoichivostyu i blagopoluchiem [Self-control as a personality resource: Assessment and associations with performance, persistence, and well-being]. *Cultural-Historical Psychology, 12*(2), 46–58. doi: 10.17759/chp.2016120205
- Gordeeva, T. O., Sychev, O. A., Osin, E. N. (2010). Razrabotka russkoyazychnoi versii Testa disposicionnogo optimizma (LOT) [Development of a Russian version of Life Orientations Test (LOT)]. *Psikhologicheskaya Diagnostika, 2*(2), 36–64.
- Hakanen, J. J., Bakker, A., Schaufeli, W. (2006). Burnout and engagement among teachers. *Journal of School Psychology, 43*, 495–513.
- Hayman, J. (2005). Psychometric assessment of an instrument designed to measure work life balance. *Research and Practice in Human Resource Management, 13*, 85–91.
- Hobfoll, S. E. (1989). Conservation of resources: A new attempt at conceptualizing stress. *American Psychologist, 44*, 513–524.
- Hobfoll, S. E. (2011). Conservation of resource caravans and engaged settings. *Journal of Occupational and Organizational Psychology, 84*, 116–122.
- Hobfoll, S. E., Shirom, A. (1993). Stress and burnout in work organizations. In R.T. Golembiewski (Ed.) *Handbook of Organization Behavior* (41–61). New York: Dekker.
- Howard, J. L., Gagné, M., Morin, A. J., Forest, J. (2016, in press). Using bifactor exploratory structural equation modeling to test for a continuum structure of motivation. *Journal of Management*. doi: 10.1177/0149206316645653
- Ivanova, T. Yu. (2013). Teoriya sohraneniya resursov kak obyasnitel'naya model' vozniknoveniya stressa [Theory of resource conservation as an explanatory model of stress emergence]. *Psychology, Journal of the Higher School of Economics, 10*(3), 119–135.
- Ivanova, T. Yu., Leontiev, D. A., Osin, E. N., Rasskazova, E. I., Kosheleva, N. V. (2018). Sovremennye problemy izucheniya lichnostnykh resursov v professional'noi deyatel'nosti [Contemporary issues in the studies of personality resources at work]. *Organizational Psychology, 8*(1), 85–121.
- Ivanova, T. Yu., Rasskazova, E. I., Osin, E. N. (2012). Struktura i diagnostika udovletvorennosti trudom: razrabotka i aprobaciya metodiki [Structure and assessment of job satisfaction: Questionnaire development and validation]. *Organizational Psychology, 2*(3), 2–15.
- Judge, T. A., Erez, A., Bono, J. E. (1998). The power of being positive: The relation between positive self-concept and job performance. *Human Performance, 11*(2–3), 167–187.

- Judge, T. A., Bono, J. E. (2001). Relationship of core self-evaluations traits — self-esteem, generalized self-efficacy, locus of control, and emotional stability — with job satisfaction and job performance: A meta-analysis. *Journal of Applied Psychology*, 86(1), 80–92.
- Judge, T. A., Erez, A., Bono, J. E., Thoresen, C. J. (2002). Are measures of self-esteem, neuroticism, locus of control, and generalized self-efficacy indicators of a common core construct? *Journal of Personality and Social Psychology*, 83(3), 693–710.
- Kalimo, R., Pahkin, K., Mutanen, P. (2002). Work and personal resources as long-term predictors of well-being. *Stress and Health*, 18, 227–234.
- Kalimo, R., Pahkin, K., Mutanen, P., Toppinen-Tanner, S. (2003). Staying well or burning out at work: work characteristics and personal resources as long term predictors. *Work & Stress*, 17(2), 109–122.
- Kuhnel, J., Sonnentag, S., Bledow, B. (2012). Resources and time pressure as day-level antecedents of work engagement. *Journal of Occupational and Organizational Psychology*, 85, 181–198.
- Lebedeva, A. A. (2012). Kachestvo zhizni lic s ogranichennymi vozmozhnostyami zdorovya: Ot sredovogo podhoda k lichnostnomy [Life quality in individuals with disability: From environmental approach to personality]. *Cultural-Historical Psychology*, 8(1), 83–91.
- Leontiev, D. A. (2011) (Ed.) *Lichnostnyi potencial: Struktura i diagnostika* [Personality potential: Structure and assessment]. Moscow: Smysl.
- Leontiev, D. A. (2016). Samoregulyatsiya, resursy i lichnostnyi potencial [Self-regulation, resources, and personality potential]. *Siberian Psychological Journal*, 62, 18–37.
- Lovakov, A. V., Agadullina, E. R., Schaufeli, W. B. (2017). Psychometric properties of the Russian version of the Utrecht Work Engagement Scale (UWES–9). *Psychology in Russia. State of the Art*, 10(1), 145–162.
- Lyubomirsky, S., King, L., Diener, E. (2005). The benefits of frequent positive affect: Does happiness lead to success? *Psychological Bulletin*, 131(6), 803–855.
- Luthans F., Youssef, C. M., Avolio, B. J. (2007). *Psychological Capital: Developing the Human Competitive Edge*. N.Y.: Oxford University Press.
- Luthans, F., Norman, S. M., Avolio, B. J., Avey, J. B. (2008). The mediating role of psychological capital in the supportive organizational climate-employee performance relationship. *Journal of Organizational Behavior*, 29, 2319–2238.
- Maddi, S. R. (2002). The story of hardiness: Twenty years of theorizing, research, and practice. *Consulting Psychology Journal: Practice and Research*, 54(3), 173–185.
- Maddi, S. R., Khoshaba, D. M. (2001). *Personal views survey III–R: Internet instruction manual*. Newport Beach, CA: Hardiness Institute.
- Mandrikova, E. Yu., Gorbunova, A. A. (2012). Vzaimosvyaz' uvlechenosti rabotoi, lichnostnykh resursov i udovletvorennosti trudom sotrudnikov [Relationship between work engagement, personal resources, and employees' job satisfaction]. *Organizational Psychology*, 2(4), 2–22.
- Mastenbroek, N.J.J.M., Jaarsma, A.D.C., Scherpbier, A.J.J.A., Beukelen, P. van Demerouti, E. (2014). The role of personal resources in explaining well-being and objective performance : a study among young veterinary professionals. *European Journal of Work and Organizational Psychology*, 23(2), 190–202.
- McDougall, L., & Drummond, P. D. (2010). Personal Resources Moderate the Relationship Between Work Stress and Psychological Strain of Submariners. *Military Psychology*, 22, 385–398.
- McLain, D. L. (1993). The MSTAT-I: A new measure of an individual's tolerance for ambiguity. *Educational and Psychological Measurement*, 53(1), 183–189.

- Nelson, D. L., Simmons, B. L. (2003). Health psychology and work stress: A more positive approach. In J. C. Quick & L. E. Tetrick (Eds.). *Handbook of occupational health psychology* (97–119). Washington, DC: APA.
- Osin, E. N. (2010). Faktornaya struktura russkoyazychnoi versii Shkaly obshei tolerantnosti k neoprdelemnosti D. Makleina [Factorial structure of the Russian-language Multiple Stimulus Types Ambiguity Tolerance Scale by D. McLain]. *Psikhologicheskaya Diagnostika*, 2(2), 65–86.
- Osin, E. N., Ivanova, T. Yu., & Gordeeva, T. O. (2013). Avtonomnaya i kontroliruemaya professional'naya motivatsiya kak prediktory sub'ektivnogo blagopoluchiya u sotrudnikov rossiiskikh organizatsiy [Autonomous and controlled professional motivation predict subjective well-being in Russian employees]. *Organizational Psychology*, 3(1), 8–29.
- Osin, E. N., Gorbunova, A. A., Gordeeva, T. O., Ivanova, T. Y., Kosheleva, N. V., Ovchinnikova, E. Y. (2017). Professional'naya motivatsiya sotrudnikov rossiiskikh predpriyatii: diagnostika i svyazi s blagopoluchiem i uspeshnost'yu [Professional motivation of Russian employees: assessment and associations with well-being and performance]. *Organizational Psychology*, 7(4), 21–49.
- Osin, E. N., Leontiev, D. A. (2008). Aprobatsiya russkoyazychnykh versii dvukh shkal ekspress-ocenki sub'yektivnogo blagopoluchiya [Russian-language validation of two brief subjective well-being scales]. In: *Materialy III vserossiiskogo sociologicheskogo kongressa* [Proceedings of the 3rd Russian Congress on Sociology] (ISBN 978-6-89697-157-3). Moscow: Russian Sociology Society, 2008.
- Osin, E. N., Rasskazova, E. I. (2013). Kratkaya versiya testa zhiznестоikosti: psikhometricheskie charakteristiki i primenenie v organizatsionnom kontekste [Short version of the Hardiness Test: Psychometric properties and organizational applications]. *Vestnik MGU. Seriya 14. Psikhologiya*, (2), 147–165.
- Porter, L. W., Smith, F. J. (1970). *The etiology of organizational commitment*. Unpublished manuscript, University of California at Irvine.
- Preacher, K. J., Kelley, K. (2011). Effect size measures for mediation models: quantitative strategies for communicating indirect effects. *Psychological Methods*, 16(2), 93–115.
- Preacher, K. J., Rucker, D. D., Hayes, A. F. (2007). Addressing moderated mediation hypotheses: Theory, methods, and prescriptions. *Multivariate Behavioral Research*, 42(1), 185–227.
- Ratelle, C. F., Vallerand, R. J., Chantal, Y., Provencher, P. (2004). Cognitive adaptation and mental health: A motivational analysis. *European Journal of Social Psychology*, 34(4), 459–476.
- Ryan, R. M., Deci, E. L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist*, 55(1), 68–78.
- Ryan, R. M., Deci, E. L. (2017). Work and Organizations: Promoting Wellness and Productivity. In R. M. Ryan, E. L. Deci. *Self-Determination Theory: Basic Psychological Needs in Motivation, Development, and Wellness* (532–558). New York, N.Y.: The Guilford Press.
- Saks, A. M. (2006). Antecedents and consequences of employee engagement. *Journal of Managerial Psychology*, 21(7), 600–619.
- Schaufeli, W. B., Bakker, A. B. (2004). UWES–Utrecht work engagement scale: test manual. Unpublished Manuscript: Department of Psychology, Utrecht University. Available at: http://www.wilmar-schaufeli.nl/publications/Schaufeli/Test%20Manuals/Test_manual_UWES_English.pdf
- Scheier, M. F., Carver, C. S. (1985). Optimism, coping, and health: assessment and implications of generalized outcome expectancies. *Health Psychology*, 4(3), 219–247.
- Schwarzer, R., Jerusalem, M. (1995). Generalized Self-Efficacy scale. In J. Weinman, S. Wright, & M. Johnston, *Measures in health psychology: A user's portfolio. Causal and control beliefs* (35–37). Windsor, UK: NFER–NELSON.

- Schwarzer, R., Jerusalem, M., Romek, V. (1996). Russkaya versiya shkaly obshchei samoeffektivnosti R. Shvartsera i M. Erusalema [Russian Version of General Self-Efficacy Scale by R. Schwarzer and M. Jerusalem]. *Inostrannaia Psikhologiya*, 7, 71–76.
- Sheldon, K. M., Osin, E. N., Gordeeva, T. O., Suchkov, D. D., Sychev, O. A. (2017). Evaluating the dimensionality of Self-determination theory's relative autonomy continuum. *Personality and Social Psychology Bulletin*, 43(9), 1215–1238. doi: <https://doi.org/10.1177/0146167217711915>
- Wells, J. D., Hobfoll, S. E., Lavin, J. (1999). When it rains, it pours: The greater impact of resource loss compared to gain on psychological distress. *Personality and Social Psychology Bulletin*, 25, 1172–1182.
- Wise, D., Stake, J. E. (2002). The moderating roles of personal and social resources on the relationship between dual expectations (for instrumentality and expressiveness) and well-being. *The Journal of Social Psychology*, 142(1), 109–119.
- Xanthopoulou, D., Bakker, A. B., Demerouti, E., Schaufeli, W. (2007). The role of personal resources in the Job Demands-Resources Model. *International Journal of Stress Management*, 14(2), 121–141.



ORGANIZATIONAL PSYCHOLOGY

Conceptual framework of cognitive social capital in organizations from a social psychology perspective

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Abstract. *Purpose.* Exploring the context of social capital in organizations is extremely important for both practitioners and researchers. Various theoretical and practical implication and application that demonstrate peculiarities of this phenomenon are presented in the literature. But, there is a lack of details about cognitive attitudes of social capital in organizations. The purpose of this paper is to develop a conceptual model of cognitive social capital for organizations. *Methodology.* Based on the social-psychological approach which describes social capital as a system of employees' relationship among them, partners and clients, a theoretical framework of organizational cognitive social capital has been created and presented. *Findings.* First of all, drawing on a variety of literatures, it is argued that there is a conceptual model of organizational cognitive social capital which consists of the following parts: 1) components of cognitive social capital, 2) positive and 3) negative factors influenced on the development of organizational social capital, 4) objectivation of social capital expressed through promotion, positive morale and corporate culture. Secondly, four dimensions of social capital are outlined in this paper: resource, network, economic and social-psychological. Resource aspect considers social capital as an aggregation of potential and actual resources owned by people. Economic approach studies competitive advantages which gain people including in social capital interactions. Network dimension highlights the importance of social networking. However, the networks are only communication channels which should be filled up with meaningful information. So, social-psychological approach explores a comprehensive content of social capital. Finally, facets and hierarchical levels of organizational social capital are analyzed. *Implications for practice.* Organizational cognitive social capital can be defined as an integrated semantic field which joins employees to reach actual targets and builds up company's image for the internal and external environment. It is based on the trust, interaction norms (reciprocity, sense of equality, fairness), commitment to company goals and values. *Originality.* The concept of organizational cognitive social capital is introduced.

Keywords: organizational cognitive social capital, trust, interaction norms, commitment, social capital, image.

References

- Antonenko, I. V. (2009). Teoretiko-metodicheskiye osnovaniya sotsialno-psikhologicheskogo issledovaniya fenomena doveriya [Teoretiko-methodical bases of socially-psychological research of a phenomenon of trust]. In: *Sotsialnaya psikhologiya segodnya: nauka i praktika: materialy IV mezhdunarodnoy nauchno-prakticheskoy konferentsii* (29–31). SPb.: Izd. SPbGUP.
- Atuahene-Gima, K., Murray, J. (2007). Exploratory and Exploitative Learning in New Product Development: A Social Capital Perspective on New Technology Ventures in China. *Journal of International Marketing*, 15(2), 1–29.
- Belkin, V. N., Belkina, N. A., Antonova, O. A., Bochkareva, I. V. (2012). Teoriya sotsialnogo kapitala organizatsii [The theory of social capital organization]. *Sotsium i vlast*, 4(36), 79–86.
- Ben-Hador, B. (2017). Three levels of organizational social capital and their connection to performance. *Journal of Management Development*, 36(3), 348–360.
- Bevelander, D., Page, M. J. (2011). Ms. Trust: Gender, Networks and Trust — Implications for Management and Education. *Academy of Management Learning & Education*, 10(4), 623–642.
- Bolino, M., Yurnley, W., Bloodgood, J. (2002). Citizenship behavior and the creation social capital in organizations. *Academy of Management Review*, 27(4), 505–522.
- Bourdieu, P. (2001). *Form of Capital. The Sociology of Economic Life*. Boulder: Westview Press.
- Bourdieu, P. (2002). Formy kapitala [Forms of capital]. *Ekonomicheskaya sotsiologiya*, 3(5), 60–74.
- Burt, R. S. (2005). *Brokerage and closure: An introduction to social capital*. UK: Oxford University Press.
- Coleman, J. (2001). Kapital sotsialnyy i chelovecheskiy [Capital is social and human]. *Obshchestvennye nauki i sovremennost*, 3, 122–139.
- Covey, S., Merrill, R. (2010). *Skorost doveriya. To, chto menyaet vse* [Speed of trust. What changes everything]. M.: Alpina.
- Dess, G. G., Sauerwald, S. (2014). Creating value in organizations: the vital role of social capital. *Organizational Dynamics*, 43(1), 1–8.
- Dominyak, V. I. (2006). Organizatsionnaya loyálnost: osnovnye podkhody [Organizational Loyalty: Basic Approaches]. *Menedzher po personalu*, 4, 36–40.
- Fombrun, C., Van Riel, C. B. M. (2004). *Fame and Fortune: how successful companies build winning reputations*. London: Financial Times Prentice Hall.
- Fukuyama, F. (2008). *Doverie* [Confidence]. M.: AST Moskva.
- Germanov, I. A., Plotnikova, Ye. B. (2017). Kontseptualizatsiya i operatsionalizatsiya ponyatiya «sotsialnyy kapital» v issledovaniyakh organizatsiy [Conceptualization and operationalization of the concept of “social capital” in the studies of organizations]. *Vestnik Permskogo universiteta. Filosofiya. Psikhologiya, Sotsiologiya*, 1, 106–114.
- Gorin, S. V. (2006). *Delovaya reputatsiya organizatsii* [Business reputation of the organization]. Rostov-na-Donu: Feniks.
- Hanifan, L. J. (1920). *The Community Center*. Boston: Silver, Burdett & Company.
- Homans, G. S. (1961). *Social behavior: It's elementary forms*. N. Y., Harkourt: Brace & World.
- Janis, I. L. (1982). *Groupthink: Psychological Studies of Policy Decisions and Fiascos*. Boston: Houghton Mifflin.
- Jiang, J. Y., Liu, C.-W. (2015). High performance work systems and organizational effectiveness: The mediating role of social capital. *Human Resource Management Review*, 25, 126–137.
- Kadirov, N. T., Merkusheva, N. I. (2017). Kak sistema transaktsionnoy pamyati vliyaet na protsess kollektivnoy raboty i na ego rezultaty? [How does the system of transactional memory affect the process of teamwork and its results?]. *Organizational psychology*, 7(1), 51–82.

- Kemper, J., Engelen, A., Brettel, M. (2011). How Top Management's Social Capital Fosters the Development of Specialized Marketing Capabilities: A Cross-Cultural Comparison. *Journal of International Marketing*, 19(3), 87–112.
- Kharskiy, K. V. (2003). *Blagonadezhnost i loylnost personala* [Trustworthiness and loyalty of staff]. SPb.: Piter.
- Latané, B., Williams, K., Harkins, S. (1979). Many hands make light the work: The causes and consequences of social loafing. *Journal of Personality and Social Psychology*, 37(6), 822–832. doi:10.1037/0022-3514.37.6.822.
- Leana, C. R., Pil, F. K. (2006). Social capital and organizational performance: Evidence from urban public schools. *Organization Science*, 17(3), 353–366.
- Lebedeva, N. M. (1999). *Vvedenie v etnicheskuyu i kross-kulturnuyu psikhologiyu* [Introduction to ethnic and cross-cultural psychology]. M.: ID «Klyuch».
- Liao, J., Welsch, H. (2005). Roles of Social Capital in Venture Creation: Key Dimensions and Research Implications. *Journal of Small Business Management*, 43(4), 345–362.
- Luhmann, N. (1979). *Trust and Power*. New-York: Wiley.
- Macherinskene, I. M., Minkute-Genrikson, R. V., Simnavichene, Zh. Y. (2009). Sotsialnyy kapital organizatsii: metodologiya issledovaniya [The social capital of the organization: the methodology of research]. *Ekonomika obrazovaniya*, 2, 28–38.
- Marsh, C. (2002). Social Capital and Grassroots Democracy in Russia's Regions: Evidence from the 1999–2001 Gubernatorial Elections. *Demokratizatsiya*, 10(1), 19–37.
- Meyer, J. P., Allen, N. J. (1991). A three-component conceptualization of organizational commitment. *Human resource management review*, 1(1), 61–89.
- Moran, P. (2005). Structural vs. relational embeddedness: Social capital and managerial performance. *Strategic Management Journal*, 26(12), 1129–1151.
- Nahapiet, J., Ghoshal, S. (1998). Social capital, intellectual capital, and the organizational advantage. *Academy of Management Review*, 23(2), 242–266.
- Nestik, T. A. (2009a). Sotsialnyy kapital organizatsii: sotsialno-psikhologicheskii analiz. Chast 1 [Social capital of the organization: socio-psychological analysis. Part 1]. *Psikhologicheskii zhurnal*, 30(1), 52–63.
- Nestik, T. A. (2009b). Sotsialnyy kapital organizatsii: sotsialno-psikhologicheskii analiz. Chast 2 [Social capital of the organization: socio-psychological analysis. Part 2]. *Psikhologicheskii zhurnal*, 30(2), 29–42.
- Oh, H., Labianca, G., Chung, M. H. (2006). A Multilevel Model of Group Social Capital. *Academy of Management Review*, 31(3), 569–582.
- Olimpieva, I. B., Kondakov, A. A., Yezhova, L. V., Slobodskoy, A. L. (2014). Sotsialnyy kapital: analiticheskie podkhody i vozmozhnosti izmereniya na urovne organizatsii [Social capital: analytical approaches and measurement capabilities at the organizational level]. In: *Peterburgskaya sotsiologiya segodnya. Sbornik nauchnykh trudov Sotsiologicheskogo instituta RAN. Vyp. 5* (10–41). SPb.: Nestor-Istoriya.
- Pastoriza, D., Ariño, M. A. (2013). Does the Ethical Leadership of Supervisors Generate Internal Social Capital? *Journal of Business Ethics*, 118(1), 1–12.
- Pochebut, L. G. (2001). Otsenka loylnosti sotrudnika k organizatsii [Evaluation of employee loyalty to the organization]. In: G. S. Nikiforov, M. L. Dmitrieva, V. M. Snetkov (Eds.). *Praktikum po psikhologii menedzhmenta i professionalnoy deyatel'nosti* (283–287). SPb.: Rech.
- Pochebut, L. G. (2005). *Sotsialnye obshchnosti. Psikhologiya tolpy, sotsiuma, etnosa* [Social communities. Psychology of the crowd, society, ethnos]. SPb.: SPbGU.
- Pochebut, L. G. (2017). *Sotsialnaya psikhologiya* [Social Psychology]. SPb.: Piter.

- Pochebut, L. G., Meyzhis, I. A. (2010). *Sotsialnaya psikhologiya* [Social Psychology]. SPb.: Piter.
- Pochebut, L. G., Svetsitskiy, A. L., Mararitsa, L. V., Kazantseva, T. V., Kuznetsova, I. V. (2014). *Sotsialnyi kapital lichnosti* [Social capital of the individual]. M.: Infra-M.
- Portes, A. (1998). Social capital: Its origins and applications in modern sociology. *Annual Review of Sociology*, 24, 1–24.
- Posokhova, A. Ye., Chiker, V. A. (2017). Reputatsiya organizatsii – pozitivnyy aspekt [The reputation of the organization is a positive aspect]. In: G. S. Nikiforov (Ed.). *Pozitivnaya psikhologiya menedzhmenta* (30–42). M.: Prospekt.
- Posokhova, S. T., Chernyakevich, Ye. Yu. (2017). Psikhologicheskoe sodержanie priverzhennosti organizatsii [Psychological content of adherence to the organization]. In: G. S. Nikiforov (Ed.). *Pozitivnaya psikhologiya menedzhmenta* (43–64). M.: Prospekt.
- Putnam, R. (1996). *Chtoby demokratiya srabotala. Grazhdanskie traditsii v sovremennoy Italii* [For democracy to work. Civil traditions in modern Italy]. M.: AdMarginem.
- Putnam, R. (1995). Prosvetayushchaya Komyuniti, sotsialnyy kapital i obshchestvennaya zhizn [Prospering Community, social capital and social life]. *Mirovaya ekonomika i mezhdunarodnye otnosheniya*, 4, 35–42.
- Reddy, A. V., Anjali, G. (2017). Intention to Quit and Determinants of Employee Engagement: an Empirical investigation among the Banking Professionals of Guntur Region (India). *Organizational psychology*, 7(4), 73–85.
- Rezanova, Ye. V. (2009). Sotsialnyy kapital organizatsii: teoretiko-metodologicheskie aspekty issledovaniya [Social capital of the organization: theoretical and methodological aspects of the research]. *Nauchnye vedomosti Belgorodskogo gosudarstvennogo universiteta. Seriya Filosofiya. Sotsiologiya. Pravo*, 7, 120–127.
- Shikhirev, P. N. (2003). Priroda sotsialnogo kapitala: sotsialno-psikhologicheskiy podkhod [The nature of social capital: a socio-psychological approach]. *Obshchestvennye nauki i sovremennost*, 2, 17–32.
- Stroh, W. A., Balakshin, M. Ye. (2015). Rol doveriya v stanovlenii i razvitii uspekhnykh delovykh partnerskikh otnosheniyakh [The role of trust in the formation and development of successful business partnerships]. *Izvestiya Irkutskogo gosudarstvennogo universiteta. Seriya: Psikhologiya*, 12, 70–93.
- Stroh, W. A., Balakshin, M. Ye. (2012). Eksperimentalnoe izuchenie roli doveriya v razvitii partnerskikh otnosheniy v biznese [Experimental study of the role of trust in the development of partner relations in business]. *Organizational psychology*, 2(2), 2–21.
- Suzuki, S., Akiyama, E. (2005). Reputation and the Evolution of Cooperation in Sizable Groups. *Proceedings: Biological Sciences*, 272(1570), 1373–1377.
- Svetsitskiy, A. L. (2008). *Kratkiy psikhologicheskiy slovar* [Brief psychological dictionary]. M.: Prospekt.
- Sztompka, P. (1999). *Trust: a sociological Theory*. Cambridge.
- Tatarko, A. N. (2014). *Sotsialno-psikhologicheskiy kapital lichnosti v polikulturnom obshchestve* [Socio-psychological capital of the individual in a multicultural society]. M.: IPRAN.
- Yu, C., Junshu, D. (2013). A literature review of the effects of social capital — from the personal network perspective. *International Journal of Business and Social Science*, 4(12), 251–259.



Resilience as internal resource in the teaching profession

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Abstract. *Purpose.* The resilience acts as a significant resource in the teaching profession under the conditions of a modern situation of uncertainty. In the article there reflected the results of the generalizing research which purpose is studying and the description of resilience as internal resource of the teachers working used conditions. When planning our work we made an assumption that the resilience used by teachers at different levels of its expressiveness, has specifics in comparison with other professional groups and also has differences with the place of residence, in connection with involvement in management work. *Method.* The data collected on groups of teachers, heads of the educational institutions and doctors living in Petropavlovsk-Kamchatsky and/or Vilyuchinsk (Kamchatka Krai). Data have been subjected to the statistical analysis (cluster, correlation and criteria). *Findings.* We have drawn conclusions that teachers with the high level of resilience rely on intelligence, planning, the life experience, autonomy more, when teachers with low level of resilience are more concentrated on emotional and financial aspect of teaching profession. The conclusion is drawn that at teacher-heads the resilience and tolerance to uncertainty is involved basically in a rational, cognitive key, and at the teachers who aren't included in the management in an affective key. Doctors have greater risk taking in comparison to teachers; distinctions of parameters of resilience depends on the place of residence. The conclusions drawn by us demand further check on more sizable and versatile sampling. *Value of the results.* Results can be applied to optimization of the professional environment of the teacher.

Keywords: resilience, personal resources, teaching profession.

References

- Abrosimov, A. E., Buchek, A. A., Frizen, M. A. (2015). Lichnostnyy potentsial lits, osushchestvlyayushchikh upravlenie v obrazovatel'nykh uchrezhdeniyakh (na primere avtonomii i samoeffektivnosti) [Personality potential of persons exercising management in educational institutions (on the example of autonomy and self-efficacy)]. *Vestnik KRAUNTS*, 2, 26–33.
- Fetiskin, N. P., Kozlov, V. V., Manuylov, G. M. (Eds.). (2002). *Sotsial'no-psikhologicheskaya diagnostika razvitiya lichnosti i malykh grupp* [Socio-psychological diagnosis of development of the individual and small groups]. M.: Izdatel'stvo instituta psikhoterapii.
- Fominova, A. N. (2012). *Zhiznestoykost' lichnosti* [Individual resilience]. M.: MPGU, Prometey.
- Frizen, M. A., Yanitskiy, M. S., Seryy, A. V. (2017). Lichnostnaya avtonomiya rukovoditeley, osushchestvlyayushchikh professional'nyuyu deyatel'nost' v sfere obrazovaniya [Personal autonomy of

- managers who carry out professional activities in the field of education]. *Sibirskiy pedagogicheskiy zhurnal*, 6, 132–139.
- Klimov, A. A. (2012). Potok i zhiznestoykost' v organizatsii [Flow and resilience in the organization]. *Organizational psychology*, 2(2), 71–78.
- Kornilova, T. V. (2009). Neopredelennost', vybor i intellektual'no-lichnostnyy potentsial cheloveka [Uncertainty, choice and intellectual-personal potential of a person]. *Metodologiya i istoriya psikhologii*, 4, 47–59.
- Leontiev, D. A. (2000). Test smyslozhiznennykh orientatsiy (SZHO) [Test of meaningful orientations (SZHO)]. M.: Smysl.
- Leontiev, D. A. (red.) (2011). *Lichnostnyy potentsial. Struktura i diagnostika* [Personal potential. Structure and diagnostics]. M.: Smysl.
- Leontiev, D. A., Rasskazova, E. I. (2006). *Test zhiznestoykosti* [Test of resilience]. M.: Smysl.
- Loginova, M. V. (2009). Zhiznestoykost' kak vnutrenniy klyuchevoy resurs lichnosti [Viability as an internal key resource of the individual]. *Vestnik Moskovskogo universiteta MVD Rossii*, 6, 19–22.
- Lukovitskaya, E. G. (1998). *Sotsial'no-psikhologicheskoe znachenie tolerantnosti k neopredelennosti: dissertatsiya ... kand. psikh. nauk* [Socio-psychological significance of tolerance to indeterminacy: the dissertation ... The candidate of psychological sciences]. SPb.
- Osin, E. N. (2010). Faktornaya struktura russkoyazychnoy versii shkaly obshchey tolerantnosti k neopredelennosti D. Makleyna [Factor structure of the Russian-language version of the scale of general tolerance to the uncertainty of D. McLain.]. *Psikhologicheskaya diagnostika*, 2, 65–86.
- Pergamenshchik, L. A., Lepeshinskiy, N. N. (2007). Oprosnik «Shkaly psikhologicheskogo blagopoluchiya» K. Riff: protsess i rezul'taty adaptatsii [Questionnaire “Scale of psychological well-being” K. Riff: process and results of adaptation]. *Psikhologicheskaya diagnostika*, 3, 73–97.
- Rasskazova, E. I. (2012). Metodika otsenki kachestva zhizni i udovletvorennosti: psikhometricheskie kharakteristiki russkoyazychnoy versii [Methodology for assessing the quality of life and satisfaction: the psychometric characteristics of the Russian version]. *Psikhologiya. Zhurnal vysshey shkoly ekonomiki*, 9, 81–90.
- Syrtsova, A. A., Sokolova, E. T., Mitina, O. V. (2008). Adaptatsiya oprosnika vremennoy perspektivy lichnosti F. Zimbardo [Adaptation of the questionnaire of the temporary perspective of the person Ph. Zimbardo]. *Psikhologicheskiy zhurnal*, 29(3), 101–109.
- Vasserman, L. I. (Ed.) (2009). *Metodika dlya psikhologicheskoy diagnostiki sposoba sovladaniya so stressovymi i problemnymi dlya lichnosti situatsiyami* [A technique for psychological diagnosis of the method of coping with stressful and problematic situations for a person]. SPb.: Psikhonevrologicheskiy in-t im. V. M. Bekhtereva.
- Zhiganov, B. A. (2007). *O roli sotsial'noy kompetentnosti lichnosti v povyshenii effektivno-sti upravlencheskikh kadrov v sfere obrazovaniya: dis. ... kand. psikh. nauk* [On the role of social competence of the individual in enhancing the effectiveness of managerial personnel in the field of education: dis. ... cand. psychol. sciences]. M.
- Zhukova, E. V., Nestik, T. A. (2013). Vzaimovliyaniye upravlencheskogo videniya i individual'no-lichnostnykh osobennostey rukovoditelya [Interaction of managerial vision and personal characteristics of the leader]. *Natsional'nyy psikhologicheskiy zhurnal*, 2(10), 52–60.
- Zinchenko, V. P. (2007). Tolerantnost' k neopredelennosti: novost' ili psikhologicheskaya traditsiya? [Tolerance to uncertainty: news or psychological tradition?] In A. K. Bolotova (Ed.). *Chelovek v situatsii neopredelennosti* (9–33). M.: TEIS.



ORGANIZATIONAL PSYCHOLOGY

Rituals of the formal opening of new Russian plants of foreign corporations: the meaning, content and manner of ceremonies

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Abstract. *Purpose.* The goal of the study is to generate evidence on an underexplored phenomenon of international business. *Study design.* The study is based on the analysis of publicly available videos devoted to formal plant opening ceremonies by foreign multinational corporations in Russia. In total, 119 videos devoted to openings of 56 industrial facilities were studied. To make possible the quantitative analysis of the content of the videos a special guide was developed in order to determine the frequency of particular elements of verbal and non-verbal communications. *Findings.* As foreign investors and host country's authorities have different expectations towards newly opened production facilities (foreign investors are interested in technical efficiency of newly erected facilities while host countries authorities are interested in long-term functioning of the facility), the essence of the communication during formal opening ceremony is public assurance of the other side of acceptance of the other side's interests. Cognitive, affective and conative elements of communication are used to demonstrate the sincerity of the expressed messages. *Research limitations.* The major research limitation is related to the single-country design of the study. The major implication for practice is the importance of orientation tours on the newly erected premises for representatives of host country's authorities; as such tours serve as a forma pretext to express admiration by the technical level of a new facility. *Originality.* The paper presents the first study of public opening ceremonies of oversea plants based on analysis of videos.

Keywords: multinational corporations, formal ceremonies of plant opening, organizational rituals, foreign direct investments.

References

- Adami, E. (2009). We/YouTube: Exploring sign-making in video-interaction. *Visual Communication*, 8, 379–400.
- Adler, P. S. Kwon, S.-W. (2002). Social capital: Prospects for a new concept. *Academy of Management Review*, 27, 17–40.
- Aharoni, Y. (2011). Behavioral elements in foreign direct investment decisions. *Research in Global Strategic Management*, 15, 23–60.

- Aharoni, Y., Tihanyi, L. & Connelly, B. L. (2011). Managerial decision-making in international business: A forty-five-year retrospective. *Journal of World Business*, 46, 135–142.
- Banks, M. (2001). *Visual methods in social research*. London: Sage.
- Bansal, P., Corley, K. (2011). From the editors: The coming of age for qualitative research: Embracing the diversity of qualitative methods. *Academy of Management Journal*, 54, 233–237.
- Bell, E., Davison, J. (2013). Visual management studies: Empirical and theoretical approaches. *International Journal of Management Reviews*, 15, 167–184.
- Berger, R., Herstein, R., Silbiger, A., Barnes, B. R. (2017). Developing international business relationships in a Russian context. *Management International Review*, 57, 441–471.
- Beugelsdijk, S., McCann, P., Mudambi, R. (2010). Introduction. Place, space and organization: Economic geography and the multinational enterprise. *Journal of Economic Geography*, 10, 485–493.
- Bezemer, J., Mavers, D. (2011). Multimodal transcription as academic practice: a social semiotic perspective. *International Journal of Social Research Methodology*, 14(3), 191–206.
- Birkinshaw, J., Brannen, M. Y., Tang, R. (2011). From a distance and generalizable to up close and grounded: Reclaiming a place for qualitative methods in international business research. *Journal of International Business Studies*, 42, 573–581.
- Bstieler, L., Hemmert, M. (2010). Trust formation in Korean new product alliances: How important are pre-existing social ties? *Asia Pacific Journal of Management*, 27, 299–319.
- Buckley, P. (2012). The multinational enterprise as a global factory. In Verbeke, A., Merchant, G. (Eds.), *Handbook of Research on International Strategic Management* (77–92). Cheltenham: Edward Elgar.
- Chailan, C., Ille, F. (2015). Branding from emerging countries: How to compete internationally? *Critical Perspectives on International Business*, 11, 54–71.
- Chua, R. Y. J., Morris, M. W., Ingram, P. (2009). Guanxi vs networking: Distinctive configurations of affect- and cognition-based trust in the networks of Chinese vs American managers. *Journal of International Business Studies*, 40, 490–508.
- Cole, B. M. (2015). Lessons from a martial arts dojo: A prolonged process model of high-context communication. *Academy of Management Journal*, 58, 567–591.
- Dikova, D. (2009). Performance of foreign subsidiaries: Does psychic distance matter? *International Business Review*, 18, 38–49.
- Durkheim, E. (1915/1961). *Elementary forms of the religious life*. New York, NY: Collier-McMillan.
- Eisenhardt, K. M., Graebner, M. E. (2007). Theory building from cases: opportunities and challenges. *Academy of Management Journal*, 50, 25–32.
- Erickson, F. (2009). Ways of seeing video: Toward a phenomenology of viewing minimally edited footage. In Goldman, R., Pea, R., Barron, B., Derry, S. J. *Video research in the learning sciences* (145–158). New York, NY: Routledge.
- Fuchs, M., Henn, S., Franz, M., Mudambi R. (Eds.). (2017). *Managing culture and interspace in cross-border investments*. New York, NY: Routledge.
- Grady, J. (2008). Visual research at the crossroads. *Forum: Qualitative Social Research / Sozialforschung*, 9(3), Art. 38.
- Graham, J. R., Harvey, C. R., Puri, M. (2015). Capital allocation and delegation of decision-making authority within firms. *Journal of Financial Economics*, 115, 449–470.
- Gurkov, I. (2014). Management practices in Russian manufacturing subsidiaries of foreign multinational corporations: challenging some beliefs about contemporary Russian industrial management. *Post-Communist Economies*, 26, 220–240.
- Gurkov, I. (2016a). Against the wind — New factories of Russian manufacturing subsidiaries of Western multinational corporations. *Eurasian Geography and Economics*, 57, 161–179.

- Gurkov, I. (2016b). Oriflame CIS: The successful evolution of a regional subsidiary's mandate. *Global Business and Organizational Excellence*, 35(4), 44–54.
- Gurkov, I. B., Morgunov, E. B. (2015). Praktiki upravleniya chelovecheskimi resursami v rossiyskikh pod-razdeleniyakh mezhdunarodnykh kompaniy v 2014 godu [Practices of human resource management in Russian sub-divisions of international companies in 2014]. *Organizational psychology*, 5(3), 68–84.
- Gurkov, I., Saidov, Z. (2017). Current strategic actions of Russian manufacturing subsidiaries of Western multinational corporations. *Journal of East-West Business*, 23, 171–193.
- Gurkov, I., Kokorina, A. (2017). Who cut the ribbon? A quantitative analysis of formal opening ceremonies of new plants of multinational corporations in Russia. *Eurasian Geography and Economics*, 58, 258–277.
- Håkanson, L., Ambos, B., Schuster, A., Leicht-Deobald, U. (2016). The psychology of psychic distance: Antecedents of asymmetric perceptions. *Journal of World Business*, 51, 308–318.
- Hart, O., Moore, J. (1999). Foundations of incomplete contracts. *The Review of Economic Studies*, 66, 115–138.
- Hart, O., Moore, J. (2008). Contracts as reference points. *Quarterly Journal of Economics*, 123, 1–48.
- Heath, C., Hindmarsh, J., Luff, P. (2010). *Video in qualitative research: Analyzing social interaction in everyday life*. London: Sage.
- Ilf, I., Petrov, E. (1961). Zolotoy telenok [Golden calf]. In Ilf, I., Petrov, E. *Sobranie sochineniy v 5 tomakh*, Tom 2, M.: Gosudarstvennoe izdatel'stvo khudozhestvennoy literatury.
- Janda, S., Rao, C. P. (1997). The effect of country-of-origin related stereotypes and personal beliefs on product evaluation. *Psychology and Marketing*, 14, 689–702.
- Jewitt, C. (2012). An introduction to using video for research. *National Centre for Research Methods Working paper*, 03/12, London.
- Knoblauch, H., Baer, A., Laurier, E., Petschke, S., Schnettler, B. (2008). Visual analysis. New developments in the interpretative analysis of Video and photography. *Forum: Qualitative Social Research / Sozialforschung*, 9(3), Art. 14.
- Knoblauch, H., Schnettler, B., Raab, J., Soeffner, H. (Eds.). (2006). *Video analysis — Methodology and methods. Qualitative audiovisual data analysis in sociology*. Frankfurt: Peter Lang.
- Kobrin, S. J. (2017). Bricks and mortar in a borderless world: Globalization, the backlash, and the multinational enterprise. *Global Strategy Journal*, 7, 159–171.
- Konopacki, R. F. (1992). Operating a manufacturing plant in an Asian culture. *Journal of Business Strategy*, 13, 58–60.
- Kramer, R. M. (1999). Trust and distrust in organizations: Emerging perspectives, enduring questions. *Annual Review of Psychology*, 50, 569–59.
- Lahlou, S. (2011). How can we capture the subject's perspective?: An evidence-based approach for the social scientist. *Social science information*, 50, 607–655.
- Levi Strauss, C. (1955/1973). *Tristes tropiques*. New York, NY: Atheneum.
- Lewis, D. J., Weigert, A. (1985). Trust as a social reality. *Social Forces*, 63, 967–985.
- Lewis, R. D. (2006). *When cultures collide: Leading across cultures* (3rd ed.). Boston, MA: Nicholas Brealey International.
- Li, P. P. (2008). Toward a geocentric framework of trust: An application to organizational trust. *Management and Organization Review*, 4, 413–439.
- Madhok, A. (1995). Revisiting multinational firms' tolerance for joint ventures: A trust-based approach. *Journal of International Business Studies*, 26, 117–137.
- Malyavin, V. (2007). *Imperiya Uchenykh* [Empire of Scholars], M.: Evropa.

- McAllister, D. J. (1995). Affect- and cognition-based trust as foundations for interpersonal cooperation in organizations. *Academy of Management Journal*, 38, 24–59.
- Meyer, K. E., Mudambi, R., Narula, R. (2011). The opportunities and challenges of multiple embeddedness. *Journal of Management Studies*, 48, 235–252.
- Meyer, R. E., Höllerer, M. A., Jancsary, D., Van Leeuwen, T. (2013). The visual dimension in organizing, organization, and organization research: Core ideas, current developments, and promising avenues. *Academy of Management Annals*, 7, 489–555.
- Pink, S. (2006). *The future of visual Anthropology: Engaging the senses*. London: Routledge.
- Rynes, S. L. (2007). Editor's forward on rich research. *Academy of Management Journal*, 50, 13.
- Schubert, C. (2006). Video analysis as practice and the practice of video analysis. In Knoblauch, H., Schnettler, B., Raab, J., Soeffner, H. (Eds.), *Video analysis: Methodology and methods. Qualitative audiovisual data analysis in sociology* (115–26). Frankfurt: Peter Lang.
- Scott-Kennel, J., Michailova, S. (2016). Subsidiary internal and external embeddedness: Trade-up and trade-off. *International Journal of Multinational Corporation Strategy*, 1, 133–154.
- Smith, A. C. T., Stewart, B. (2011). Organizational rituals: Features, functions and mechanisms. *International Journal of Management Reviews*, 13, 113–133.
- Smith, S. K., Mountain, G. A., Hawkins, R. J. (2016). A scoping review to identify the techniques frequently used when analysing qualitative visual data. *International Journal of Social Research Methodology*, 19, 693–715.
- Smith, W. R. Jr. (1993). Country-of-origin bias: A regional labelling solution. *International Marketing Review*, 10(6), 4–12.
- Snell, J. (2011). Interrogating video data: systematic quantitative analysis versus microethnographic analysis. *International Journal of Social Research Methodology*, 14, 253–258.
- Spradley, J. P. (1980). Participant observation. Fort Worth, TX: Harcourt Brace Janovich.
- Tirole, J. (1999). Incomplete contracts: Where do we stand? *Econometrica*, 67, 741–781.
- Tseremoniya otkrytiya predpriyatiya kompanii «Oriflame» v g. Noginske Moskovskoy oblasti*. Retrieved from: <https://www.youtube.com> (data obrashcheniya: 15.01.2018)
- Tseremoniya otkrytiya proizvodstva PVKh kompanii «Rusvinil» v g. Kstov Nizhegorodskoy oblasti*. Retrieved from <https://www.youtube.com>
- Turner, V. (1969). *The Ritual Process: Structure and Anti-Structure*. Chicago, IL: University of Chicago Press.
- Ul Haq, H., Drogendijk, R., Holm, D.B. (2017). Attention in words, not in deeds: Effects of attention dissonance on headquarters-subsidiary communication in multinational corporations. *Journal of World Business*, 52, 111–123.
- Uzzi, B. (1997). Social structure and competition in interfirm networks: The paradox of embeddedness. *Administrative Science Quarterly*, 42, 35–67.
- Von Krogh, G., Rossi-Lamastra, C., Haefliger, S. (2012). Phenomenon-based research in management and organization science: When is it rigorous and does it matter? *Long Range Planning*, 45, 277–298.
- Welch, C., Piekkari, R., Plakoyiannaki, E., Paavilainen-Mantymäki, E. (2011). Theorising from case studies: towards a pluralist future for international business research. *Journal of International Business Studies*, 42, 740–762.



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The Interrelation of Employees' Creativity Level and Conflict Behavior

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Abstract. In this paper, creativity is explored in three dimensions: as a divergent thinking (J. Guilford), a self-actualization component (A. Maslow), and a flow state (M. Csikszentmihalyi). Certain personal properties of the creative employee can be associated with conflict behavior, provoke its occurrence, intensity and readiness to cope. *Purpose.* The main goal of the research is to study the relationship between employees' creativity extent and conflict behavior. *Method.* A quasi-experiment was conducted in the organizational environment. At the first stage, participants filled several forms on creativity and conflict behavior. At the second stage, the respondents participated in case solving in the dyads. The respondent's partner was the experimenter's assistant, instructed on inducing a conflict situation. The subjects were mid-level managers of large companies ($N = 687$, including 358 men and 329 women, average age 36 years). For the creativity extent analysis were selected the cases in the upper and lower 30% of the sample. *Results.* Creativity as divergent thinking (Guilford, 1959), a component of self-actualization (Maslow, 1999) and a flow state (Csikszentmihalyi, 1999) are statistically related. There are significant differences in the number of attempts to resolve the conflict within a higher and lower extents of creativity. There are significant differences in the fact of conflict emergence within a higher and lower extents of creativity. There is a statistical opportunity to predict the type of coping strategies based on measures of creativity. *The value of the results* consists, first, in a review of personal creativity at three levels; second, in created author's methodology for assessing the flow state, which is of value for consulting practices in the organization; third, the results of the research allow creating a number of practical recommendations and educational courses for managing creative employees.

Keywords: creativity, conflict behavior, divergent thinking, self-actualization, flow, coping.

References

- Abell, S. (2002). Maslow and relatedness: creating an interpersonal model of self-actualization. *Journal of Humanistic Psychology*, 42(4), 37–57.
- Amabile, T. (1996). *Creativity in context*. Boulder, CO: Westview Press.
- Barron, F. (1968). *Creativity and personal freedom*. Princeton: Van Nostrand.
- Benedek, M., Mühlmann, C., Jauk, E., Neubauer, A.C. (2013). Assessment of divergent thinking by means of the subjective top-scoring method: effects of the number of top-ideas and time-on-task on reliability and validity. *Psychology of Aesthetics, Creativity, and the Arts*, 7, 341–349.
- Binnewies, C., Sonnentag, S., Mojza, E. J. (2009). Daily performance at work: Feeling recovered in the morning as a predictor of day-level job performance. *Journal of Organizational Behavior*, 30(1), 67–93.

- Bodrov, V. A. (2006). *Psikhologicheskiy stress: razvitie i preodolenie* [Psychological stress: development and coping]. M.: Per Se.
- Bogoyavlenskaya, D. B. (2002). *Psikhologiya tvorcheskikh sposobnostey* [Psychology of creative abilities]. M.: Akademiya.
- Bogoyavlenskaya, D. B., Susokolova, I. A. (2008). Zarubezhnye issledovaniya psikhologii tvorchestva: Postgilfordskiy period [Foreign studies of the psychology of creativity: Postgilford period]. *Psikhologicheskaya nauka i obrazovanie*, 3, 97–107.
- Bolotova, A. K. (2007). *Chelovek i vremya v poznanii, deyatel'nosti, obshchenii* [Man and time in cognition, activity, communication]. M.: ID GU VSHE.
- Bonaiuto, M., Mao, Ya., Roberts, S., Psalti, A., Ariccio, S., Ganucci Cancellieri, U., Csikszentmihalyi, M. (2016). Optimal experience and personal growth: flow and the consolidation of place identity. *Frontiers in Psychology*, 7.
- Burleson, W. (2005). Developing creativity, motivation, and self-actualization with learning systems. *Int. J. Human-Computer Studies*, 63, 436–451.
- Chen, M. (2006). Understanding the benefits and detriments of conflict on team creativity process. *Creativity and Innovation Management*, 15, 105–116.
- Chen, M., Chang, Y. (2015). Creativity cognitive style, conflict, and career success for creative entrepreneurs. *Journal of Business Research*, 68, 906–91.
- Creswell, J. D., Dutcher, J. M., Klein, W. M. P., Harris, P. R., Levine, J. M. (2013). Self-Affirmation Improves Problem-Solving under Stress. *PLoS ONE*, 8(5).
- Csikszentmihalyi, M. (1988). Motivation and creativity: toward a synthesis of structural and energistic approaches to cognition. *New ideas in psych.*, 6(2), 159–176.
- Csikszentmihalyi, M. (1999). Implications of a Systems Perspective for the Study of Creativity. In R. J. Sternberg (Ed.). *Handbook of Creativity* (313–335), Cambridge: Cambridge University Press.
- Csikszentmihalyi, M., Hunter, J. (2003). Happiness in everyday life: the uses of experience sampling. *Journal of Happiness Studies*, 4, 185–199.
- DeCaro, M. S., Wieth, M., Beilock, S. L. (2007). Methodologies for examining problem solving success and failure. *Methods*, 42, 58–67.
- DeClerq, D., Rahman, Z., Belausteguigoitia, I. (2017). Task conflict and employee creativity: the critical roles of learning orientation and goal congruence. *Human Resource Management*, 56(1), 93–109.
- Dermanova, I. B. (2002). Metodika «Lichnostnaya agressivnost' i konfliktnost'» [The method of "Personal aggressiveness and conflict"]. In I. B. Dermanova (red.). *Diagnostika emotsional'no-nravstvennogo razvitiya* (142–146), SPb.
- Druzhinin, V. N. (2000). *Psikhologiya obshchikh sposobnostey* [Psychology of general abilities]. SPb.: Piter.
- Eschleman, K., Madsen, J., Alarcon, G. (2014). *Benefiting from creative activity: The positive relationships between creative activity, recovery experiences, and performance-related outcomes*. NY: John Wiley and Sons Ltd.
- Farh, J. M., Lee, C., Farh, C. L. (2010). Task conflict and team creativity: a question of how much and when. *Journal of Applied Psychology*, 95(6), 1173–1180.
- Forbes, J. B., Domm, D. R. (2004). Creativity and productivity: Resolving the conflict. *SAM Advanced Management Journal*, 69, 4–13.
- Fraser, D. (2010). Creativity, mood disorders and the aesthetic. *Gifted Education International*, 27(1), 84–96.
- Gong, Y., Cheung, S.-Y., Wang, M., Huang, J.-C. (2012). Unfolding the proactive process for creativity: integration of the employee proactivity, information exchange, and psychological safety perspectives. *Journal of Management*, 38(5), 1611–1633.

- Greene, L., Burke G. (2007). Beyond self-actualization. *Journal of human health stvice and administration. Fall*, 116–128.
- Grishina, N. V. (2008). *Psikhologiya konflikta* [Psychology of conflict]. SPb.: Piter.
- Guilford, J. (1959). Traits of Creativity. In: H. H. Anderson (Ed.). *Creativity and Its Cultivation* (142–161), New York: Harper & Row.
- Guilford, J. P. (1950). Creativity. **American Psychologist**, 5(9), 444–454.
- Guskova E. A. (2001). Svyaz kreativnosti i agressii v podrostkovom vozraste [The connection of creativity and aggression in puberty]. *Psychologia XXI veka: Tezisi Mezhdunarodnoi mezhvusovskoi nauchno-practicheskoi konferencii* (297–298), SPb.
- Heller, K. A., Perlet, K., Sierwald, W. (1991). Longityudnoe issledovanie odarennosti [Longitudinal study of giftedness]. *Voprosy psikhologii*, 2, 120–127.
- Henderson, S. J. (2004). Product inventors and creativity: The finer dimensions of enjoyment. *Creativity Research Journal*, 16(2), 293–312. DOI: 10.1080/10400419.2004.9651460
- Ilyin, E. P. (2000). *Motivatsiya i motivy* [Motivation and motives]. SPb.: Piter.
- Janssen, O., Giebels, E. (2013). When and why creativity-related conflict with coworkers can hamper creative employees' individual job performance. *European Journal of Work and Organizational Psychology*, 22(5), 574–587. DOI: 10.1080/1359432X.2012.669524
- Kaufmann, G., Vosburg, S. K. (1997). "Paradoxical" mood effects on creative problem-solving. *Cognition and Emotion*, 11, 151–170. DOI: 10.1080/026999397379971
- Kim, M., Choi, J., Park, O. (2012). Intuitiveness and creativity in groups: cross-level interactions between group conflict and individual cognitive styles. *Social behavior and personality*, 40, 1419–1434. DOI: 10.2224/sbp.2012.40.9.1419
- Krems, J. A., Kenrick, D. T., Neel, R. (2017). Individual perceptions of self-actualization: what functional motives are linked to fulfilling one's full potential? *Personality and social psychology bulletin*, 43(9), 1337–1352. DOI: 10.1177/0146167217713191
- Kryukova, T. L., Kuftiyak E. L. (2007). Oprosnik sposobov sovladaniya (adaptatsiya metodiki WCQ) [Questionnaire of methods of coping (adaptation of WCQ methodology)]. *Zhurnal prakticheskogo psikhologa*, 3, 93–112.
- Leontiev, D. A. (2004). Puti razvitiya tvorchestva: lichnost' kak opredelyayushchiy faktor [Ways of development of creativity: personality as the determining factor]. *Voobrazhenie i tvorchestvo v obrazovanii i professional'noy deyatelnosti. Materialy chteniy pamyati L. S. Vygotskogo: chetvertaya mezhdunarodnaya konferentsiya* (214–223). M.
- Lyubart, T., Mushiru K., Tordjman S., Zenasni F. (2009). *Psikhologiya kreativnosti* [Psychology of creativity]. M.: Kogito-TSentr.
- Manheim, A. R. (1998). The relationship between the artistic process and self-actualization. *Art therapy*, 15(2), 99–106. DOI: 10.1080/07421656.1989.10758720
- Maslow, A. (1999). *Novye rubezhi chelovecheskoy prirody* [New frontiers of human nature]. M.: Smysl.
- Maslow, A. H. (1943). A Theory of Human Motivation. *Psychological Review*, 50, 370–396.
- McCrae, R. R. (1987). Creativity, Divergent Thinking, and Openness to Experience. *Journal of Personality and Social Psychology*, 52(6), 1258–1265. DOI: 10.1037/0022-3514.52.6.1258
- Meshkova, N. V., Enikolopov, S. N. (2016). O psikhologicheskikh issledovaniyakh asotsial'noy kreativnosti [About psychological research of antisocial creativity]. *Psikhologicheskie issledovaniya*, 9(50), 3.
- Miron-Spektor, E., Gino, F., Argote, L. (2011). Paradoxical frames and creative sparks: Enhancing individual creativity through conflict and integration. *Organizational Behavior and Human Decision Processes*, 116(2), 229–240. DOI: 10.1016/j.obhdp.2011.03.006

- Raju, G. P. (2017). Impact of Conflicts on Team Creativity in Indian Software Companies: Gains & Detriments. *The Indian Journal of Industrial Relations*, 53(1), 141–152.
- Rogers, C. R. (1980). *A Way of Being*. Boston: Houghton-Mifflin.
- Santos, C. M., Uitdewilligen, S., Passos, A. M. (2015). Why is your team more creative than mine? The influence of shared mental models on intra-group conflict, team creativity and effectiveness. *Creativity and innovation management*, 24(4), 645—658. DOI: 10.1111/caim.12129.
- Shadrikov, V. D. (2002). *Vvedenie v psikhologiyu: sposobnosti cheloveka* [Introduction to psychology: the ability of man]. M.: Logos
- Shumakova, N. B., Shsheblanova, E. I., Shsherbo, N. P. (1991). Issledovanie tvorcheskoy odarennosti s ispol'zovaniem testov P. Torrensa u mladshikh shkol'nikov [Study of creative talent with the use of tests by P. Torrens in junior schoolchildren]. *Voprosy psikhologii*, 1, 27–32.
- Smith, S., Paquette, S. (2010). Creativity, chaos and knowledge management. *Business Information Review*, 27 (2), 118–123.
- Sternberg, R. J. (2010). The Nature of Creativity. *Creativity Research Journal*, 18(1), 87–98.
- Stroh, W. A. (2017). Prakticheskij psikholog kak posrednik. Psikhologicheskaya rabota s organizatsionnymi konfliktami [Practical psychologist as a mediator. Psychological work with organizational conflicts]. *Zhurnal prakticheskogo psikhologa*, 2, 89–113.
- Tanggaard, L. (2013). The sociomateriality of creativity in everyday life. *Culture & Psychology*, 19(1), 20–32. DOI: 10.1177/1354067X12464987
- Thomas, K. W., Kilmann, R. H. (1974). *Conflict Mode Instrument*. New York: Sterling Forest.
- Torrance, E. P. (1965). *Rewarding creative behavior*. Englewood Cliffs, NJ.: Prentice Hall.
- Torrance, E. P. (1988). The nature of creativity as manifest in its testing. In: R. J. Sternberg (Ed.). *The nature of creativity* (43–73). New York: Cambridge University Press.
- Torrance, E. P. (1974). *Torrance tests of creative thinking. Norms-technical manual*. Princeton, NJ: Personnel Press.
- Troyer, L., Younggreen, R. (2009). Conflict and creativity in groups. *Journal of Social Issues*, 65, 409–427.
- Vodop'yanova, N. E. (2009). *Psikhodiagnostika stressa* [Psychodiagnostics of stress]. SPb.: Piter.
- Wallach, M., Kogan, N. (1965). *Modes of thinking in young children*. NY: Holt, Rinehart & Winston.
- Waples, E. P., Friedrich, T. L. (2011). Managing creative performance: important strategies for leaders of creative efforts. *Advances in Developing Human Resources*, 13(3), 366–385. DOI: 10.1177/1523422311424713.
- Wehner, L., Csikszentmihalyi, M., Magyari-Beck, I. (1991). Current approaches used in studying creativity: An exploratory investigation. *Creativity Research Journal*, 4(3), 261–271. DOI: 10.1080/10400419109534398
- Weisberg, R. W. (1993). *Creativity: beyond the myth of genius*. US: W. H. Freeman.
- Yagolkovskiy, S. R. (2007). *Psikhologiya kreativnosti i innovatsiy* [Psychology of creativity and innovation]. M.: HSE.
- Yong, K., Sauer, S. J., Mannix, E. (2014). Conflict and creativity in interdisciplinary teams. *Small Group Research*, 45(3), 266–289.



ORGANIZATIONAL PSYCHOLOGY

Prospects of cooperation between universities: on the results of the IX International scientific and practical conference “Organizational psychology: people and risks”

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Abstract. The report describes the main results of the 9th International Scientific and Practical Conference “Organizational Psychology: People and Risks”, which was held April 26-27, 2018 at the Psychology Department of the Saratov National Research University. The conference was prepared and conducted by the master’s program “Organizational Psychology”, under the direction of the Dean of the Faculty of Psychology, Professor Liudmila Aksenovskaya. Presented reports and their discussion showed the perspectives of the research collaboration of organizational psychologists of different regions of the country, as well as the possibilities of international cooperation.

Key words: conference; organizational psychology; people and risks; organizational culture; order approach; labor psychology; leadership; partnership; career orientations; staff reserve.



ORGANIZATIONAL PSYCHOLOGY

«Business in Russia: risks and prospects for development in new conditions». Personal impressions of the participant of the 27th conference of the National Institute of Certified Management Consultants

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Abstract. The Case Conference “Business in Russia: risks and prospects for development in the new environment” was held in Moscow on April 12-13, 2018. Conference, plunging business executives and management consultants into a new reality — technology, business, society. Expert opinions, consulting vision, necessary knowledge for understanding the vectors of company development.

Keywords: conference; management consulting; case-conference.