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## Development of Human Capital in the System of Economic Categories of Work

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**Abstract:**

*Today, human capital is one of the main factors in the formation of the knowledge economy, which is the highest stage in the development of an innovative, post-industrial economy.*

*The development of intellectual and spiritual capabilities of a person, as well as the accumulation of human capital, which has a strong influence on the productivity and quality of labor, becomes one of the priorities for the future development of the state.*

*This article discusses the development of human capital in the system of economic categories of labor.*

**Keywords:** Human capital, quality management, human, labor, economy.

**JEL Classification:** J01, J24, O15.

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## 1. Introduction

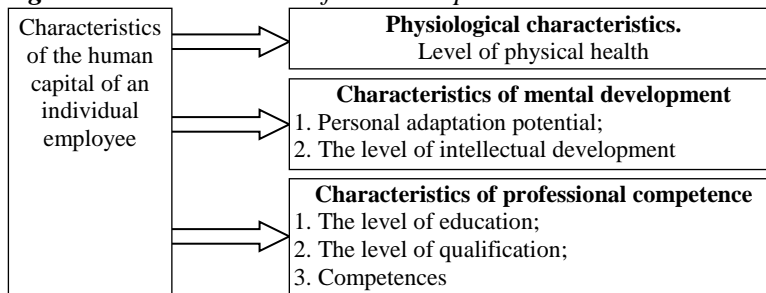
Under the conditions of the 21<sup>st</sup> century and the rapidly developing scientific and technical progress, the formation and continuous development of the quality of human resources, which ensures the competitiveness of an enterprise and the level of development of the state in the context of the knowledge economy, are of importance. The most valuable and sought-after employee becomes a person who is educated, initiative, creative, with a high level of professionalism, and his knowledge becomes the main factor in the development of the modern economy (Osadchy *et al.*, 2015a; 2015b; Sadriev *et al.*, 2016; Nedelkin *et al.*, 2017; Sultanova and Chechina, 2016; Ma'Arif, 2018).

## 2. Methods

As an independent section, the theory of human capital appeared in the middle of the twentieth century, thanks to the Nobel laureates T. Schulz and G. Becker. Now, this concept is used everywhere but is rather vague, there are often misunderstandings and difficulties regarding its content and structure. First, to solve the problem posed, it is worthwhile to distinguish between the human capital of the individual and the human capital of society. When considering the human capital of an individual from the point of view of creating added value and generating income, it includes:

- 1) The level of physical health;
- 2) Personal adaptation potential;
- 3) The level of intellectual development;
- 4) The level of education;
- 5) Skill level;
- 6) Competencies.

**Figure 1.** Characteristics of human capital



In the expanded interpretation, human capital includes not only the abilities with which additional income is created but also social, creative, psychological, cultural and many other non-economic qualities that do not directly create added value. These include the ability to establish and maintain business connections, the ability to make useful contacts, discipline, organization, order, moral and ethical principles,

etc. (Goskomstat of Russia, 2011b; Voronkova *et al.*, 2018; Zhundibayeva *et al.*, 2013; Mullakhmetov *et al.*, 2018; Plotnikov and Skuridina, 2014; Hidayah, and Zarkasyi, 2017; Gabidullina *et al.*, 2018; Surjanti *et al.*, 2018; Nedelkin *et al.*, 2016; Chernysheva and Shepelenko, 2017; Przhedetsky *et al.*, 2018; Güngör, 2018).

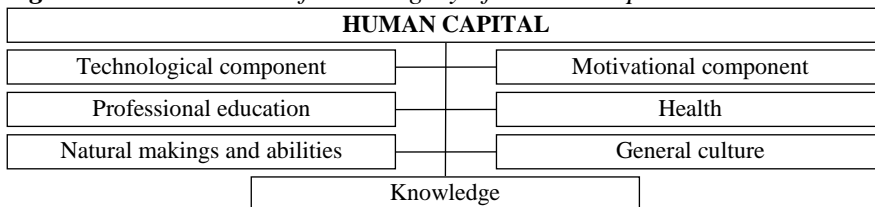
Human capital can also be viewed in terms of a competent and qualitative approach. F. Neumann maintains a competent approach and considers education to be a basic element of human capital, dividing it into general education, vocational education, and key qualifications (Goskomstat of Russia, 2009). Today, in the era of the information-value revolution, this approach has not lost its relevance and defines “knowledge” as a basic element of human capital (Korableva, and Guseva, 2015). The term “knowledge” is also a versatile concept. First, it characterizes the aggregate information resources of the individual, obtained as a result of training (Hanif *et al.*, 2018; Bochkareva *et al.*, 2017; Gapsalamov, *et al.*, 2019; Sugandini *et al.*, 2018; Sukavejworakit *et al.*, 2018; Aliev, and Sigov, 2017; Volegzhana *et al.*, 2018; Kambey *et al.*, 2018; Goryainova *et al.*, 2017; Utami and Ferdiansah, 2018; Veselovsky *et al.*, 2017; Yusnaeni, *et al.*, 2017; Yemelyanov *et al.*, 2018a; Tarman, 2016). Secondly, it characterizes the ability to put into practice already existing information resources (Romasheva *et al.*, 2018; Aleksandrova *et al.*, 2015). Thirdly, it determines the skills and abilities that allow an individual to produce an innovative product based on already acquired knowledge (Aleksandrova *et al.*, 2019; Aleksandrova *et al.*, 2014).

Previously, information technologies were only a conductor for delivering knowledge to an individual (Goskomstat of Russia, 2011a), but when moving to the information society, information technologies “become the key technology aimed at creating and transmitting information” Information technologies acquired new functions, acting, firstly, as a kind of access point individual to a virtual network of social relations, and secondly, is a flexible system, thanks to which a person creates his own space, defined by his personal interests, abilities, and abilities. Thus, information technologies become not just a source of knowledge but are transformed into its structure, providing a positive dynamic in the development of human resources (Bogoviz *et al.*, 2018; Shumakova *et al.*, 2016; Aleksandrova *et al.*, 2016; Korableva *et al.*, 2017; Vasilev *et al.*, 2013; 2014; Kamolov, 2017; Akhmetshin *et al.*, 2018c; 2018d; Yemelyanov *et al.*, 2018b; Kirillova *et al.*, 2018; Tabachuk *et al.*, 2018; Swaramarinda, 2018; Kılınç *et al.*, 2016). Human capital can be described as a specific set of qualities of an individual, which allows him to “produce” new knowledge and effectively apply it in practice. The structure can be defined as shown in Figure 2.

In the qualitative aspect, the structure of human capital can be described as an interrelated set of qualities, such as professional, managerial, leadership, motivational, and socio-psychological (Akhmetshin *et al.*, 2018a; Dmitrieva *et al.*, 2017; Latyshev and Akhmetshin, 2015; Kolesnikov *et al.*, 2018; Eryanto *et al.*,

2018; Salhi, 2018; Sugahara, 2018; Syam *et al.*, 2018; Yemelyanov *et al.*, 2018c; Saptono and Najah, 2018; Djafri and Rahmat, 2017; Zorina *et al.*, 2018).

**Figure 2.** The structure of the category of "human capital"



The most important is the professional qualities that make up the foundation of any profession. In a rapidly growing economy, the individual must have the following qualities:

- ✓ to constantly improve, as a professional (through training or self-study);
- ✓ be able to work in a team, get acquainted with the achievements of colleagues and be ready to help in the implementation of ideas in practice;
- ✓ be able to apply this knowledge in practice;
- ✓ should have a non-standard thinking (from "already acquired knowledge" to "create" new ones).

Managerial qualities are personality characteristics that allow you to make independent decisions in unusual situations and contribute to the effective organization of the workforce aimed at achieving goals and high results (Asaliev *et al.*, 2014; Zhuravlev *et al.*, 2015; Sycheva *et al.*, 2018; Sharafutdinov *et al.*, 2017; Akhmetshin *et al.*, 2018e; Gurieva *et al.*, 2016; Adegbuyi *et al.*, 2016; Sousa *et al.*, 2018; Belasheva *et al.*, 2018; Eryilmaz and Kara, 2017; Yemelyanov, 2014).

According to the well-known rule 7m, managerial qualities must include abilities that ensure responsibility for men (people), method (methods), money (money), machines (machines), materials (materials), marketing (sales), management (management)" (Mullakhmetov *et al.*, 2016; Yemelyanov *et al.*, 2018d). R. Stogdill conducted a significant statistical study, which resulted in generalizing the most significant qualities for a manager, which, in his opinion, are interpersonal skills, responsibility, creativity, enterprise, desire for new achievements, confidence in his potencies, responsibility (Macheret *et al.*, 2017).

### 3. Results

So, the most important managerial qualities include:

- ✓ vigor and initiative;
- ✓ the ability to organize a team for effective work;
- ✓ achieve the goals in the set time frame;
- ✓ be able to motivate team members;

- ✓ the ability to make decisions in the conditions of limited time and subsequently bear responsibility for them.

Leadership is partly related to the managerial, among them are the following:

- ✓ the ability to make common decisions for the whole team and put them into practice;
- ✓ planning skills;
- ✓ be able to set motivational goals;
- ✓ be able to admit their mistakes;
- ✓ the ability to create teams to solve tasks.

The motivational characteristics of the personality include:

- ✓ an orientation of the person, which are a set of motives that determine human activity in relation to independent situations (Akhmetshin, 2018b);
- ✓ installations that are ready to respond to a perceived situation in accordance with experience;
- ✓ inclination - the orientation of the individual to engage in certain activities;
- ✓ interests - the most interesting individual activities;
- ✓ beliefs - the need of the individual, prompting to act in accordance with its values;
- ✓ ideals - sensual and spiritual values of a person;
- ✓ claims - the level of satisfaction of his needs, justifying human behavior;
- ✓ expectations - concretization of the claim regarding the real situation.

The social and psychological qualities include:

- ✓ emotional stability;
- ✓ stress resistance.

Each of the qualities of the structure of human capital discussed above is interrelated, and their formation and development occur in the process of becoming an individual as a professional. The human capital of the society, on the one hand, includes people as owners of the above-considered qualities a, on the other hand, the level of development of these qualities in the society. The components of the human capital of society include:

- ✓ personal capital - the level of personal development in society;
- ✓ health capital - the level of development of health care in society as a whole;
- ✓ education capital - the level of development of health care in society;
- ✓ economic capital - the level of economic relations in society, which includes the development of market relations, production, technology;
- ✓ social capital - the level of development of civil society;
- ✓ political capital - the level of development of the political system, its transparency, openness to society (Zhuravlev *et al.*, 2018).
- ✓

#### 4. Conclusion

So, human capital is a complex concept, but, despite numerous approaches to defining the structure of human capital, the main basic element will always be a person who, as the owner of a socioeconomic relationship, combines two main roles: is a social person, and also a production entity; has individual qualities and characteristics: character, physical, psychological and mental abilities, health, etc., which leads to practical importance determining the role of human capital in the system of economic categories of labor, identifying signs of classification and determining its structure.

#### References:

- Adegbuyi, A.A., Adegbuyi, O.A., Ogunnaike, O.O., Ibidunni, A.S., Fadeyi, O.I. 2018. Role of learning orientation on smes' performance: Empirical evidence from smes in nigeria. *Journal of Entrepreneurship Education*, 21(4).
- Akhmetshin, E.M., Sharafutdinov, R.I., Gerasimov, V.O., Dmitrieva, I.S., Puryaev, A.S., Ivanov, E.A., Miheeva, N.M. 2018a. Research of human capital and its potential management on the example of regions of the Russian Federation. *Journal of Entrepreneurship Education*, 21(2).
- Akhmetshin, E., Morozov, I., Pavlyuk, A., Yumashev, A., Yumasheva, N., Gubarkov, S. 2018b. Motivation of personnel in an innovative business climate. *European Research Studies Journal*, 21(1), 352-361.
- Akhmetshin, E.M., Kovalenko, K.E., Goloshchapova, L.V., Polyakova, A.G., Erzinkyan, E.A., Murzagalina, G.M. 2018c. Approaches to social entrepreneurship in Russia and foreign countries. *Journal of Entrepreneurship Education*, 21(Special Issue).
- Akhmetshin, E.M., Kovalenko, K.E., Ling, V.V., Erzinkyan, E.A., Murzagalina, G.M., Kolomeytseva, A.A. 2018d. Individual entrepreneurship in Russia and abroad: social and legal aspects. *Journal of Entrepreneurship Education*, 21(Special Issue).
- Akhmetshin, E.M., Brager, D.K., Pokramovich, O.V., Andreyko, M.N., Aleynikova, M.Yu. 2018d. Modern theoretical and methodological approaches to personnel management in manufacturing enterprises. *Espacios*, 39(31).
- Al Idrus, S., Ahmar, A. S., Abdussakir. 2018. The effect of organizational learning and job satisfaction on market orientation, and its impact on business achievement. *Journal of Entrepreneurship Education*, 21(4).
- Aleksandrova, T.N., Litvinova, N.M., Aleksandrov, A.V., Korchevenkov, S.A., Bogomyakov, R.V. 2014. Analysis of losses of noble metals and rational methods of their decreasing in the time of development of placers. *Tsvetnye Metally*, (5), 11-15.
- Aleksandrova, T.N., Nikolaeva, N., Romashev, A. 2015a. An experimental and theoretical approach to the assessment of the specific surface of apatite-nepheline ore in the process of grinding. Paper presented at the International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 577-583.
- Aleksandrova, T.N., Nikolaeva, N.V., Potemkin, V.A. 2019. Beneficiation of carbonaceous rocks: New methods and materials. Paper presented at the Innovation-Based Development of the Mineral Resources Sector: Challenges and Prospects - 11th Conference of the Russian-German Raw Materials, 2018, 391-398.
- Aleksandrova, T.N., Romashev, A.O., Aleksandrov, A.V. 2016. About modeling of

- rheological properties of heavy oil suspensions. *Neftyanoe Khozyaystvo - Oil Industry*, (5), 68-70.
- Aliev, I.M., Sigov, V.I. 2017. Creating a learning organization as an increase in the adaptability of a company's human capital to the volatility of the external environment. *European Research Studies Journal*, 20(4), 57-69.
- Asaliev, A.M., Poltarykhin, A.L., Alkhimenko, O.N. 2014. Intellectual capital: Theory and approaches of its assessment on macro level. *World Applied Sciences Journal*, 30(10), 1404-1408.
- Belasheva, I.V., Shapovalov, V.K., Ershova, D.A., Lozhechkina, A.D., Tereschenko, E.V. 2018. Individual personality traits as predictors of intra-organizational vertical career growth of employees. *European Research Studies Journal*, 21(S2), 294-304.
- Bochkareva, T.N., Akhmetshin, E.M., Korotkova, A.L., Lyitkina, N.L., Nasipov, I.S., Khaliullina, A.G. 2017. Research of students' cognitive activity. *Espacios*, 38(60).
- Bogoviz, A.V., Chernukhina, G.N., Mezheva, L.N. 2018. Subsystem of the territory management in the interests of solving issues of regional development. *Quality - Access to Success*, 19(S2), 152-156.
- Chernysheva, Y.G., Shepelenko, G.I. 2017. Analysis of moral-and-ethic business in Russia. *European Research Studies Journal*, 20(1), 311-318.
- Djafri, N., Rahmat, A. 2017. Mapping of leadership species protection for the sustainable economic growth of local communities. *European Research Studies Journal*, 20(4), 432-442.
- Dmitrieva, I.S., Sharafutdinov, R.I., Gerasimov, V.O., Akhmetshin, E.M., Pavlov, S.V. 2017. Method evaluation of the human capital with its innovational potential consideration and perspectives of regional development: The example of the Republic of Tatarstan and Volga Federal District regions. *Espacios*, 38(40).
- Eryanto, H., Swamarinda, D.R. 2018. Influence ability, perception of change and motivation to intention of entrepreneurship: Overview of analysis in students of faculty of economics universitas negeri jakarta. *Journal of Entrepreneurship Education*, 21(3).
- Eryilmaz, A., Kara, A. 2017. Comparison of teachers and pre-service teachers with respect to personality traits and career adaptability. *International Journal of Instruction*, 10(1), 85-100, doi:10.12973/iji.2017.1016a.
- Gabidullina, F., Akhatova, Z., Karimova, I., Glukhova, O., Zakirov, R. 2018. Ethical discussions in the national literature as a form of moral education of the students. *Journal of Social Studies Education Research*, 9(2), 295-305.
- Gapsalamov, A.R., Ibatullin, R.R., Vasilev, V.L., Bakhvalov, S.Y., Akhmetshin, E.M., 2019. Audiovisual aids application in the secondary-level vocational education establishments: efficiency analysis and assessment. *International Journal of Educational Management*, 33(2), 1-20, doi:10.1108/IJEM-02-2018-0082.
- Goryainova, L.V., Krishtal, I.S., Kuznetsova, O.D. 2017. Financing of infrastructure in education: International experience of attracting private investments and opportunities for Russia to form a knowledge-driven economy. *European Research Studies Journal*, 20(2), 348-363.
- Goskomstat of Russia, Center for Research and Statistics of Science. 2009. *Nauka v Rossii: Stat. sb. [Science in Russia: Statistical Book]*. Moscow.
- Goskomstat of Russia. 2011a. *Rossiya v tsifrakh: Stat. Sb. [Russia in Figures: Statistical Book]*. Moscow.
- Goskomstat of Russia. 2011b. *Trud i zanyatost v Rossii: Stat.sb. [Labor and Employment in Russia: Statistical Book]*. Moscow.

- Güngör, S.K. 2018. Content analysis of theses and articles on ethical leadership. *International Journal of Instruction*, 11(4), 901-920 doi:10.12973/iji.2018.11457a.
- Gurieva, L.K., Akhmetshin, E.M., Savicheva, A.N., Kataeva, V.I., Norkina, A.N. 2016. Theoretical foundations of management of the organization: Development, types of structures, management methods of control. *International Business Management*, 10(22), 5406-5416.
- Hanif, M. I., Malik, F., Abdul Hamid, A.B. 2018. The effect of knowledge management and entrepreneurial orientation on organization performance. *Journal of Entrepreneurship Education*, 21(4).
- Hidayah, N., Zarkasyi, W. 2017. The effect of human resources management competency and the role of culture on accrual accounting implementation effectiveness and the impact on quality of accounting information. *European Research Studies Journal*, 20(4), 183-199.
- Ibidunni, A.S., Ibidunni, O.M., Olokundun, M.A., Oke, O.A., Ayeni, A.W., Falola, H.O., Borishade, T.T. 2018. Examining the moderating effect of entrepreneurs' demographic characteristics on strategic entrepreneurial orientations and competitiveness of SMEs. *Journal of Entrepreneurship Education*, 21(2).
- Kambey, J.P., Wuryaningrat, N.F., Kumajas, L.I. 2018. Examining leadership and knowledge sharing role on small and medium enterprises innovation capabilities. *International Journal of Economics and Business Administration*, 6(1), 24-38.
- Kamolov, S.G. 2017. Digital public governance: Trends and risks. *Giornale Di Storia Costituzionale*, 33(1), 185-194.
- Kılınç, E., Kılınç, S., Kaya, M.M., Başer, E.H., Türküresin, H.E., Kesten, A. 2016. Teachers' attitudes toward the use of technology in social studies teaching. *Research in Social Sciences and Technology*, 1(1), 59-76.
- Kirillova, E.A., Pavlyuk, A.V., Mikhaylova, I.A., Zulfugarzade, T.E., Zenin, S.S. 2018. Bitcoin, lifecoin, namecoin: The legal nature of virtual currency. *Journal of Advanced Research in Law and Economics*, 9(1), 119-126.
- Kolesnikov, Y.A., Pavlyuk, A.V., Radachinsky, Y.N., Rodionova, N.D. 2018. Problems of implementation of public-private partnership in Russia. *European Research Studies Journal*, 21(S1), 187-197.
- Korableva, O., Guseva, M. 2015. Activation of innovation processes in banks as a result of the implementation of basic basel accord provisions. *Ikonomicheski Izsledvania*, 24(3), 108-128.
- Korableva, O.N., Gorelov, N.A., Shulha, M.V. 2017. Risk component of innovation management strategy. Paper presented at the Proceedings of the European Conference on Innovation and Entrepreneurship, ECIE, September 837-843.
- Latyshev, I.O., Akhmetshin, E.M. 2015. Methodological approaches to analyzing the indicators of human capital management in the interests of innovation development of enterprise. *International Business Management*, 9(6), 1565-1570.
- Ma'Arif, S. 2018. Education as a foundation of humanity: Learning from the pedagogy of pesantren in indonesia. *Journal of Social Studies Education Research*, 9(2), 104-123.
- Macheret D.A., Macheret D.A., Epishkin I.A. and Epishkin U. 2017. Mutual influence of institutional and transport factors of economic development: retrospective analysis. *Journal of institutional studies*, 9(4), 80-100.
- Massora, A. 2017. The effect of officer guidance in human resources quality performance. *European Research Studies Journal*, 20(4), 253-263.
- Mullakhmetov, K.S., Sadriev, R.D., Gabidinova, G.S., Akhmetshin, E.M. 2016. Control in marketing-based management. *Academy of Marketing Studies Journal*, 20(Special



- issue 2), 13-19.
- Mullakhmetov, K. S., Sadriev, R. D., Akhmetshin, E. M. 2018. Corporate culture in management systems. *European Research Studies Journal*, 21(1), 519-528.
- Nedelkin, A.A., Titov, V.A., Tikhomirova, E.I., Romanova, Y.D. 2016. The processing's automation of digital documents for hypertext scientific library. *ARNP Journal of Engineering and Applied Sciences*, 11(7), 4681-4684.
- Nedelkin, A.A., Novikov, S.V., Titov, V.A., Sannikov, D.V., Mikhailova, A.V., Popova, L.N. 2017. Development of human resources of agro-industrial complex. *Journal of Applied Economic Sciences*, 12(7), 1932-1942.
- Osadchy, E.A., Akhmetshin, E.M. 2015a. The intellectual capital importance and the role of organizations against the backdrop of a crisis: Innovation vector. *Social Sciences (Pakistan)*, 10(6), 1013-1020.
- Osadchy, E., Akhmetshin, E. 2015b. Integration of industrial and educational sphere in modernization of economic relations. *Journal of Applied Economic Sciences*, 10(5).
- Plotnikov, A.V., Skuridina, I.V. 2014. Corporate culture and socio-psychological climate of the organization. *Life Science Journal*, 11(6 Spec. Issue), 548-553.
- Przhedetsky, Y.V., Przhedetskaya, N.V., Przhedetskaya, V.Y., Bondarenko, V.A., Borzenko, K.V. 2018. The role of social-ethical marketing and information and communication technologies in response to challenges of oncology. *European Research Studies Journal*, 21(S1), 377-386.
- Romasheva, N.V., Kruk, M.N., Cherepovitsyn, A.E. 2018. Propagation perspectives of CO<sub>2</sub> sequestration in the world. *International Journal of Mechanical Engineering and Technology*, 9(11), 1877-1885
- Sadriev, R.D., Mullakhmetov, K.S., Akhmetshin, E.M. 2016. Russian business medium: Competition problems. *International Journal of Economics and Financial Issues*, 6(Special Issue), 30-38.
- Salhi, B. 2018. Impact of personal motivation on the intention and behaviour of social entrepreneurs. *Journal of Entrepreneurship Education*, 21(Special Issue).
- Saptono, A., Najah, S. 2018. Development of an assessment instrument of affective domain for entrepreneurship in senior high school. *Journal of Entrepreneurship Education*, 21(4).
- Sharafutdinov, R.I., Gerasimov, V.O., Yagudina, O.V., Dmitrieva, I.S., Pavlov, S.V., Akhmetshin, E.M. 2017. Research of human capital in view of labour potential of staff: National companies case study. Paper presented at the Proceedings of the 29th International Business Information Management Association Conference - Education Excellence and Innovation Management through Vision 2020: From Regional Development Sustainability to Global Economic Growth, 839-852.
- Shumakova, O., Poltarykhin, A.L., Mozzherina, T.G. 2016. Import substitution as the basis of solving problem related to food safety of the russian federation. *International Journal of Applied Business and Economic Research*, 14(9).
- Sousa, P., Wilks, D.C., Cruz, J.N. 2018. Entrepreneurial intentions of law students: The moderating role of personality traits on attitude's effects. *Journal of Entrepreneurship Education*, 21(3).
- Sugahara, S. 2018. Motivation to adopt game-based learning (gbl) for employee training and development: A case study. *Journal of Entrepreneurship Education*, 21(4).
- Sugandini, D., Feriyanto, N., Muafi, Hadioetomo, Darpito, S.H. 2018. The influence of novelty seeking behavior and autonomy toward new product trial in the context of e-business learning: The role of mediation of perceived behavioral control. *Journal of Entrepreneurship Education*, 21(3).

- Sukavejworakit, K., Promsiri, T., Virasa, T. 2018. OETEL: An innovative teaching model for entrepreneurship education. *Journal of Entrepreneurship Education*, 21(2).
- Sultanova, A.V., Chechina, O.S. 2016. Human capital as a key factor of economic growth in crisis. *European Research Studies Journal*, 19(S2), 71-78.
- Surjanti, J., Soejoto, A., Muafi. 2018. The impact of procedural justice (PJ), distributive justice (DJ) and ethical climate (EC) on continuous professional development (CPD): The role of work-related stress (WRS) mediation. *Journal of Entrepreneurship Education*, 21(1).
- Swaramarinda, D.R. 2018. The usefulness of information and communication technology in entrepreneurship subject. *Journal of Entrepreneurship Education*, 21(3).
- Syam, A., Hasbiah, S., Yunus, M., Akib, H. 2018. Determinants of entrepreneurship motivation for students at educational institution and education personnel in Indonesia. *Journal of Entrepreneurship Education*, 21(2).
- Sycheva, I.N., Akhmetshin, E.M., Dunets, A.N., Svistula, I.A., Panteleeva, T.A., Potashova, I.Y. 2018. Labour relations in research of socio-economic systems. *European Research Studies Journal*, 21(4), 356-367.
- Tabachuk, N.P., Ledovskikh, I.A., Shulika, N.A., Karpova, I.V., Kazinets, V.A., Polichka, A.E. 2018. Information competency and creative initiative of personality and their manifestation in activity. *Journal of Social Studies Education Research*, 9(1), 168-186, doi:10.17499/jsser.16908.
- Tarman, B. 2016. Innovation and education. *Research in Social Sciences and Technology*, 1(1), 77-97.
- Utami, C.W., Ferdiansah, M. 2017. Development of knowledge management model in establishing innovation and company performance in UMKM/SME in Indonesia. *European Research Studies Journal*, 20(4), 655-665.
- Vasilev, V.L., Tuktarova, E.M., Akhmetshin, E.M. 2013. A balanced scorecard and economic security of companies. *World Applied Sciences Journal*, 27(13 A), 424-427.
- Vasilev, V.L., Akhmetshin, E.M. 2014. The role of information and information technology in the management control function. *Biosciences Biotechnology Research Asia*, 11(3), 1469-1474. doi:10.13005/bbra/1540.
- Veselovsky, M.Y., Abrashkin, M.S., Vakhrushev, D.S., Parfenova, L.B., Volkov, A.Y. 2017. Knowledge-based engineering as a driver of economic development of the regions of Russia. *European Research Studies Journal*, 20(2), 66-85.
- Volegzhanina, I.S., Chusovlyanova, S.V., Adolf, V.A., Bykadorova, E.S., Belova, E.N. 2017. Knowledge management as an approach to learning and instructing sector university students in post-soviet professional education. *Journal of Social Studies Education Research*, 8(2), 39-61, doi:10.17499/jsser.360863.
- Voronkova, O.Y., Akhmetshin, E.M., Sycheva, I.N., Shpakova, R.N., Pashkova, E.Y., Poltarykhin, A.L. 2018. Economic mechanism of regulating land relations in the agricultural sector of Russia. *European Research Studies Journal*, 21(4), 280-291.
- Widyasthana, G.N.S., Wibisono, D., Purwanegara, M.S., Siallagan, M., Sukmawati, P. 2017. Corporate venture capital strategy for selecting start-up investments in Indonesia using an agent-based model: Cases of a mobile application start-up, payment solution start-up and digital advertising start-up. *Journal of Entrepreneurship Education*, 20(2).
- Yemelyanov, V.A. 2014. Intelligent information technology of visual information processing for metals diagnostics. *Naukovyi Visnyk Natsionalnoho Hirnychoho Universytetu*, (4), 66-73.

- Yemelyanov, V.A., Yemelyanova, N.Y., Nedelkin, A.A., Zarudnaya, M.V. 2018a. Neural network to diagnose lining condition. Paper presented at the IOP Conference Series: Materials Science and Engineering, 327(2) doi:10.1088/1757-899X/327/2/022107.
- Yemelyanov, V., Tochilkina, T., Vasilieva, E., Nedelkin, A., Shved, E. 2018b. Computer diagnostics of the torpedo ladle cars. Paper presented at the AIP Conference Proceedings, 2034 doi:10.1063/1.5067351.
- Yemelyanov, V., Yemelyanova, N., Nedelkin, A. 2018c. Diagnostic system to determine lining condition. Paper presented at the MATEC Web of Conferences, 172 doi:10.1051/mateconf/201817204001.
- Yemelyanov, V., Tochilkina, T., Nedelkin, A., Shved, E. 2018d. Automation of monitoring and diagnosing the technical condition of torpedo ladle cars. Paper presented at the MATEC Web of Conferences, 239 doi:10.1051/mateconf/201823904003.
- Yusnaeni, Y., Corebima, A.D., Susilo, H., Zubaidah, S. 2017. Creative thinking of low academic student undergoing search solves create and share learning integrated with metacognitive strategy. *International Journal of Instruction*, 10(2), 245-262.
- Zhundibayeva, A.K., Ergobekov, K.S., Espenbetov, A.S. 2013. The lyrical hero in the works of kazakh's poet shakarim kudaiberdiev. *Life Science Journal*, 10(Spl. Issue11), 113-117.
- Zhuravlev P.V., Mikhaikushkin P.V. and Poltarykhin A.L. 2015. Modernization of balanced scorecard as a tool for estimating corporate structures'functioning effectiveness. *Actual Problems of Economics*.
- Zhuravlev, P.V., Poltarykhin, A.L., Alkhimenko, O.N., Kuksova, O.D. 2018. Human capital and its efficiency in the knowledge economy: The role of continuing education. *Espacios*, 39(46).
- Zorina, A.V., Yarullina, A.S., Akhmetova, L.A., Shaimardanova, M.R., Nikishina, S.R., Garipova, A.A. 2018. Leadership in the university student environment: How to become a person-oriented leader. *International Journal of Instruction*, 11(4), 271-286, doi:10.12973/iji.2018.11418a.

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