

Pedagogical sciences

M.Yu. Valentiroy

The Correlation between Contract Servicemen's Life Satisfaction and Personal Qualities of an Individual in the Process of Socialization

Key words and phrases: individual and personal qualities; life satisfaction; socialization.

Abstract: The paper describes the results of the study the correlation between contract servicemen's life satisfaction and individual and personal qualities in the course of socialization. The hypothesis of dependence of servicemen's satisfaction with life on individual and personal qualities during adaptation to service activity has been verified.

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N.A. Gunina, E.S. Mishchenko

Combining Face-to-Face and Distance Teaching in Language Training at Non-Linguistic Universities

Key words and phrases: blended learning; face-to-face teaching; Learning Management System; teaching a foreign language in non-linguistic universities.

Abstract: The features of the application of technology blended learning a foreign language in not language high school. Analyzed the main difficulties associated with the introduction of distance learning, identified their advantages in relation to teaching foreign languages. A technique for the development of the course with the elements of distance learning.

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A.N. Zakharova, G.S. Dulina

Socio-Psychological Features of Orthodox Family Relations

Key words and phrases: Chuvash ethnos; family and marriage relations; Orthodox Christians; orthodox faith; religiosity; socio-cultural traditions; socio-psychological characteristics; spiritual and moral traditions.

Abstract: The paper presents the results of the empirical research into socio-psychological characteristics of an Orthodox family in social and cultural conditions of the Chuvash Republic. The authors consider the role of tradition in marriage-family relations of Orthodox Christians.

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V.K. Istomin

Current Problems of Teaching Physical Education at the University

Key words and phrases: course; health; physical education; students; teaching.

Abstract: Physical Culture and Sports, permeating all levels of modern society, have a broad impact on major aspects of society and solve a wide range of problems such as strengthening of physical and moral health, improving mental and physical performance, distraction from bad habits, etc. Promotion of physical culture among students is the best solution to these problems. Health and physical fitness of students in recent years have been deteriorating and does not meet the pace of modern life and the demands of professional activity. Today, students have a low level of health, physical development and physical fitness. For example, studies at Moscow Institute of Transportation Engineers (State University), showed that 66 % of the students from the focus group belong to the general fitness group, 18 % of the students belong to a correction group, and 5 % of the surveyed students do not do sport for health reasons. A large percentage of students suffer from chronic diseases, the most common diseases include psychosomatic neuroses, diseases of cardiovascular and respiratory systems, gastrointestinal and musculoskeletal systems.

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A.Yu. Kuzhekov

The Problem of Developing Active Citizenship of Students

Key words and phrases: citizenship; components of citizenship; education system; moral and legal education.

Abstract: The paper highlights the issues associated with the maintenance and understanding of citizenship among the younger generation; the author analyzes official and scientific sources. It is stated that citizenship is shaped by society, family, and the entire social reality, including educational institutions that play an important role in the process of its development.

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Ts.A. Shamlikashvili, S.V. Kharitonov, D.N. Pchelintseva, A.N. Stepanishchev

The Analysis of Psychological Factors Influencing the Dynamics of Disputes and Expert Assessment of their Compliance to Outside Influence

Key words and phrases: disputes; experts; mediation; psychological factors;

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recommendations.

Abstract: The study focuses on one of the most acute problems of mediation – psychological factors affecting the status of the dispute parties. The study is based on the approach that involves two-stage individual interviews with two groups of experts. The first group of experts made recommendations for immediate correction of the most common psychological factors that affect the dynamics of disputes among people. The second group of experts assessed the potential impact of the proposed recommendations by analyzing their responses and selecting the most effective recommendations.

The study involved 34 experts. The first group consisted of 16 experts, and the second group consisted of 18 experts. All the experts had a high level of qualifications and had current experience of dispute resolution, with a total work experience as a specialist of 5 years.

The obtained results show that according to expert estimates, the intensity of the main factors can be directly changed by outside influence; recommendations on increasing and decreasing the intensity of the selected factors have been made.

Cultural studies

S.S. Araslanova

Globalization and its Impact on Library Work

Key words and phrases: communication; cultural integration; globalization; Hongladarom; integration processes; library; local interests.

Abstract: The paper examines the processes of globalization taking place in the information space of modern society and their impact on libraries.

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K.A. Bagaeva

The Secular and the Religious: Dialogue in Socio- Cultural Space

Key words and phrases: culture; dialogue; religious; secular; society.

Abstract: The paper is devoted to the analysis of correlation between «secular» and «religious». The author describes the essence of socio-cultural correlation between «secular» and «religious» concepts through understanding of their essence. It is concluded that these two concepts are closely connected.

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N.V. Kipriyanova

Social Mobility of Merchants at the End of XVIII – the First Half of XIX Centuries

Key words and phrases: dynasties; factors of dynasties instability; Russian merchants; social mobility.

Abstract: Using the archival materials of Vladimir province the author analyzes the transfer of merchants from one social group to another. This process is directly connected with the formation of merchant dynasties and the basis of the Russian bourgeoisie.

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E.E. Tarando, O.A. Nikiforova, O.A. Taranova

The Notion of Humanization of Work: Basic Concepts

Key words and phrases: humanization of labor; exploitation of labor; human capital; the theory of human relations; working conditions; social responsibility of business.

Abstract: The article analyzes the theoretical basis of the concept of humanization of work, highlighted key concepts that contributed to the formation of these bases. Discusses concepts such as the concept of exploitation of labor Marx, human capital theory, the theory of human relations, the concept of corporate social responsibility and stakeholders.

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A.V. Fedorov

Revolutionary Terror in the Russian Empire: to the History of Political Extremism

Key words and phrases: counter-terrorism; political extremism; revolutionary party; terrorism.

Abstract: The paper provides an overview of the origin and development of political extremism in Russia. Using historiographic analysis the author identifies two stages of this phenomenon. The paper reveals the essence and characteristics of the first and second periods. The author believes that characteristic feature of political extremism in Russia is its incarnation in the activities of the revolutionary terrorists. The paper presents statistical data on terrorist escalation of the revolutionary organizations of both periods.

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Linguistics

Ahmed Karim Salim

The Influence of Online Technologies on Creating the Image of Iraq in the Russian Media Space

Key words and phrases: image; influence; information; internet mass-media; network technologies; news; soft power.

Abstract: The paper explores the role of new information online technologies on creating the image of Iraq by means of network mass media as «soft power». The author comes to the conclusion that in the Russian media space the image of Iraq is defined mainly in internet mass-media under the influence of special network characteristics.

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A.V. Lemov

The Specificity of Ambiguity in Linguistic Terminology

Key words and phrases: concept; denotation; functioning; plan of expression; polysemy; term.

Abstract: The paper discusses the difference between terminological polysemy and lexical polysemy. Processes of metaphorization in the national language do not depend on native speakers, but polysemy in the terminological systems is explained by a variety of scientific points of view, which is incorrectly assumed as the ambiguity of the term.

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A.N. Tikhonova

The Idyll in the Composition of the G. Malo's Novel "Without a Family"

Key words and phrases: episode; family labour idyll; G.Malo; idyll; motive.

Abstract: The paper is devoted to the notion of "idyll" and its peculiarities in the composition of the novel "Without a family" by G. Malo. The author gives special consideration to the types of idyll depending on its motive.

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Khanum Ali kyzy Elchieva

Phraseologization in the Context of Secondary Nomination

Key words and phrases: phraseological units; phrase stability; secondary nomination; usage in speech.

Abstract: The paper deals with the theory of phraseology. Secondary nomination is the centre of attention. It is marked that secondary nomination is based on common laws of language system evolution. Phraseology unit is one of the outcomes of this process. When scholars do not proceed from secondary nomination they take into consideration only one criterion: certain stability of the phrase and its usage in speech.

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Chiang Chzhiyan

Linguistic and Cognitive Portrait of Dramatic Characters in A.P. Chekhov's Play "Uncle Vanya"

Key words and phrases: angel; devil; God; language picture of the world; linguistic and cognitive portrait; predestination; thesaurus.

Abstract: Literature portrays unique national culture. Russian literature also reflects its own unique culture, closely related to religiosity, namely Christianity. Despite the fact religiosity in Russian literature associated with Christianity have been in focus of attention of researchers, they pay little attention to identifying linguistic and cognitive portraits of the dramatic characters in the play "Uncle Vanya" written by A.P. Chekhov from the perspective of religiosity. This paper is devoted to the study of religiosity in A.P. Chekhov's play "Uncle Vanya" to reveal the linguistic picture of the world of dramatic characters and portray their linguistic and cognitive portrait. Accordingly, within the framework of the Russian religiosity associated with Christianity, the author discussed questions related to the lexicon of dramatic characters in A.P. Chekhov's play "Uncle Vanya". The author analyzed the lexemes God and angel, idioms with lexeme God, colloquialisms with lexeme devil and the concept of predestination, which occupy an important place in the lexicon of dramatic characters of the play. The author created a linguistic and cognitive portrait of dramatic characters of the play under study

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Computer science, computer facilities and management

M.F. Valishin

Improving the Reliability of Data Hiding in Digital Photos by LSB Method Using Sobel Operator

Key words and phrases: digital image processing; method of least significant bits; LSB; RS steganalysis; steganography; Sobel operator; steganalysis.

Abstract: This paper discusses the problem of improving the reliability of data hiding in the spatial domain of digital photographs through the introduction of steganograms in regional areas. The authors give a detailed description and the software implementation of steganographic system (SGS) based on the information hiding by LSB method in boundary areas, which are computed using the Sobel operator. The results of computational studies using RS-steganalysis of secure information hiding using the proposed SGS are given.

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A.A. Oskolkov, E.V. Matveev

Vulnerability of Hardware-Software Complex when Checking License Validity

Key words and phrases: ACCORD; hardware and software complex; data protection; unauthorized access.

Abstract: This paper discusses ACCORD-NT/2000 hardware-software complex designed to protect information from unauthorized access. This system of data protection is designed for state secrets processing. The authors argue its vulnerability in terms of errors typical of more simple software.

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Economic sciences

E.V. Agapova

Development of Public Development in Electronic Form in Single Economy Space: Possibilities and Limits

Key words and phrases: cooperation; Customs Union; Economic policy; electronic procurement; institutional factors; integration; public procurement; specialization.

Abstract: The paper considers the problems of development of public procurement in electronic form in conditions of integration in the space of Common Economic Union; also, the authors deal with problems and possible solutions for the further development of the Customs Union on standardization of the legislations of the countries in the development of the public procurement system. The author conducted the analysis of national legislation, discussed the need for agreed industrial policy between countries.

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A.S. Elfimov

Legal and Economic Bases for the Development of Self-Regulatory Organizations in Construction Industry

Key words and phrases: construction; government intervention; industry; management tool; market infrastructure; real estate; self-regulation.

Abstract: Accounting of industry factors in the development of the self-regulation system in the construction industry can contribute to the creation of effective management in the construction industry. Converting the existing system and structure of self-regulation should be an effective alternative solution to government intervention in the economy. The creation of conditions in the industry in which competitive advantages self-regulatory organization members exceed the benefits over the unfair behavior of market participants is promising.

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V.V. Zvorykin, G.V. Fadeycheva

Basic Principles of the Methodology of Economic Readiness Assessment in the Business Sector

Key words and phrases: basic principles; business sector; economic readiness; hierarchy; basis; mechanism of functioning; rating; scientific formalization; system.

Abstract: The paper presents the results of the development of basic principles of the methodology of economic readiness assessment. Based on the analysis of system mechanisms used in the procedure, the author highlighted fundamental prerequisites for their theoretical formalization and subsequent amendments. The tools and sequence of their applications are described.

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M.V. Polyakova

Competition of Migrants and Local Population in the Labor Market in Moscow

Key words and phrases: competition; competitiveness; employment; labor market; workers.

Abstract: The article features the study of competition of migrants and local population in the labor market in Moscow to confirm the need to create conditions for fair competition in the metropolitan labor market.

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K.V. Simonov

Methods and Principles of Calculating the Participation Fee in Trade Fairs

Key words and phrases: exhibitor; expo-area; expo-business; trade fair.

Abstract: The paper considers the approaches to the calculation of base price of trade fair participation: price differentiation by type of expo-area, price discrimination of exhibitors, pricing by psychological factors. The author shows features of discounts and extra charges: discount modification of expo-areas and services prices, correction of quotations by payment regulations, pricing by location and expo-area type, penalties for exhibitors. Principles of pricing for expo-business are formulated: validity, persuasiveness and transparency. Psychological methods of increasing trade fair participation prices are described. Recommendations on the anti-recessionary pricing are made.

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O.O. Smirnova

Oil Product Exchange and Price Discrimination

Key words and phrases: antimonopoly regulation; dominant firm; oil market; price discrimination; stock trading in petroleum products.

Abstract: The development of exchange trading of oil products in the Russian Federation was intended as an instrument of control of market power by dominant economic entities, support of development of business wholesale and retail trade, liberalization of service markets fuel supply at airports. However, practice of the trading development shows that institutional trades can cause prerequisites for the development of price discrimination. Therefore, the development of data analysis tools in conditions for petroleum product trading development is a very important area in the development of antimonopoly control.

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Z.R. Tuskaeva

Strategic Planning as a Key Factor in Improving Construction Facilities and Equipment

Key words and phrases: construction machinery; strategic planning; technical potential.

Abstract: The unstable economic situation in the country and the world makes it necessary to change management and operation of the construction industry. The construction industry has seen sharp decline in technical equipment for construction. This circumstance has led to increased economic and social importance of the problem of restoration and effective use of construction equipment. The paper considers strategic planning aimed at improving the construction facilities and machinery.

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Biological sciences

L.A. Karimova, G.Sh. Safuanova

Laser Doppler Flowmetry in Assessing the Effectiveness of Hyperbaric Oxygenation in Complex Treatment of Patients with Diffuse Liver Diseases

Key words and phrases: diffuse liver disease; hyperbaric oxygen therapy; laser Doppler flowmetry.

Abstract: The study examines the parameters of laser Doppler flowmetry in evaluating the effectiveness of treatment of patients with liver hepatitis. The study of dopplerography indicators of blood flow in the liver was carried out before and after standard treatment and integrated treatment with the inclusion of hyperbaric oxygenation. Application of hyperbaric oxygenation led to the improvement of the patients, biochemical parameters, activating blood flow, reduction in congestion processes in the liver.

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V.V. Sorokina

Invasive Herbaceous Plants in Man-Modified Environment (Case Study of St. Petersburg)

Key words and phrases: herbaceous plants; invasion; man-modified environment; St. Petersburg; urban areas.

Abstract: The paper studies invasive herbaceous plants in man-modified environment of St.

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Petersburg. In 2012–2014 the author executed geobotanical researches of typical urban areas. The list of invasive plants of St. Petersburg was made. In further studies it is supposed to be specified.

Machine Building and Engineering

A.S. Vasilyev, I.R. Shegelman

Justification of Through Technologies of Fuel Wood Harvesting and Production

Key words and phrases: biomass wood; harvesting; production; through technology; wood chips.

Abstract: The authors prove that through processes of fuel wood harvesting and production should be considered as part of the integrated processes of harvesting and production of the whole wood biomass

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P.S. Ivanov

Impact Theory in Cone Vibratory Mill

Key words and phrases: impact; grinding process; mill; vibration.

Abstract: The paper discusses the problem of energy consumption, and high cost of working processes, particularly in the mining industry of the crushing of rock. The author considers the option of creating new technologies of crushing rocks, through the introduction of additional crushing process of vibration forces, thereby reducing energy consumption and cost of the finished product.

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N.V. Gorbunov, A.S. Kamenev

Mathematical Aspects of Using Correcting RNS-Code for Noise-Free Digital Channel on Experimental Physics Facility

Key words and phrases: code rate; noise immunity; redundancy; residue number system.

Abstract: As the title implies the paper describes the most interesting RNS-code correcting properties for usage in experimental physics facility to study extremely rare processes. Attention is drawn to insufficient research in the RNS-code mathematical properties under conditions of binary element base. We introduce definitions of a modular and control redundancy. Mathematical problem of code constructing is formulated. Practical recommendations for constructing correcting RNS-code are given. The research is of great help for design and analysis of data transfer systems with correcting RNS-code.

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D.A. Katzai

The Stand for Research into Cutting Forces of the Milling Unit

Key words and phrases: cutting forces; cutting reaction moment; measuring stand.

Abstract: The paper describes the original kinematic scheme of the measuring stand. The stand is intended for tests of the small-sized hand-operated rotational type milling unit. Two schemes of connection of tensometric sensors are considered. Cutting forces are measured in one option of connection. The moment which is put to the operator's hands is measured in other option of connection. The stand design is presented in the form of separate knots and assembled.

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T.M. Kokina

The Frequency Analysis of the Exit Shaft Mechanism Torsional Oscillation of the Rotor Spinning Machine Based on the Model of Distributed Characteristics

Key words and phrases: dynamic model; frequency analysis; rotor spinning machine; torsional oscillation mechanism.

Abstract: The paper gives the frequency analysis of the exit shaft mechanism torsional oscillation of rotor spinning machine and justifies the selection of the dynamic research model.

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Yu.A. Sokolov, V.N. Nazarov

Investigation of Possibilities of Double Slit Diffraction Interferometer Scheme to Control Linear Displacements

Key words and phrases: diffraction; diffraction; measurements; interference; interferometry; linear displacements; optical inspection.

Abstract: The paper considers a diffraction control scheme of small linear displacements; the scheme has high sensitivity, insignificant measurement error 2 μm and a simple construction. The mathematical model describing the light intensity distribution at the registration plane is developed. The experimental results (TU Ilmenau, Germany) confirmed the basic theoretical principles of the work.

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A.A. Sopoiev

Energy Extraction through Vibrations Caused by Vortices

Key words and phrases: converter; cylinders; vortices; energy in currents; hydropower station.

Abstract: This scientific paper deals with a new principle of energy extraction from a flowing fluid. When the stream flows around the body vortices are shedding downstream. This vortex shedding creates alternating force in transverse direction. This phenomenon is known as vortex induced vibrations. Vortex induced vibrations normally cause awful damage to aero, civil, mechanical, marine and nuclear engineering structures. That's why engineers in different branches of science are working on suppression of vortex-induced vibrations. But for efficient energy extraction it is important not to suppress vortex-induced vibrations but to enhance them.

This paper is aimed to get practical knowledge in regulation methods of vortex-induced vibrations. There are a lot of laboratories all over the world that use different principles in vortex controlling. Methods that are closely related to energy extraction in flowing fluid are introduced, among them: roughness distribution, combined action of transverse oscillating and uniform cross-flow, inflow conditions, electromagnetic force, imposed transverse magnetic field, critical mass. The results of different regulation methods of vortex-induced vibrations are discussed.

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Mathematical Methods and Models

M.N. Nebolsina, Gim Methak Khamza Gim

On One Non-Stationary Problem without Initial Data

Key words and phrases: Banach space; boundary value problems; continuous semigroup; initial data.

Abstract: In this paper, by using S.G. Kreyn's method of boundary value problems for differential equations in Banach spaces the authors verified the solvability of a non-stationary problem without initial conditions.

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Legal science

N.A. Volkov

Collaboration of Regional Ombudsman with Public Authorities to Respect Labor Rights

Key words and phrases: constitutional and legal characteristics; labor rights; living wage; unemployment.

Abstract: The main constitutional and legal characteristics of Russia as a social state are socio-economic rights and freedoms guaranteed by the Constitution of the Russian Federation and the establishment of a living wage. The biggest challenge in the area of labor rights in 2014 was the problem of timely and full payment of salaries to employees. The work to prevent delays on wages and guarantee employment in the region is done by the regional headquarters for financial monitoring and the development of measures to support industries. The Human Rights Ombudsman in the Kemerovo region is a member of the headquarters. Almost 120 thousand residents of the region became the participants of the employment program in 2014

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M.G. Smirnov

Territory in International Law: Theory and Practice

Key words and phrases: air space; international law; maritime space; outer space; principles; territory.

Abstract: It should be noted, that territory in the doctrines of some states is closely connected with the possession and the ascendancy over particular area. At the present time the doctrine is considered to be obsolete by a number of national and foreign scholars. The evolution of international relations, outer space investigation, the development of sea and air transportation, and increasing diplomatic activity result in the necessity to additionally qualify both the terms "territory" and "space".

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M.V. Yakovlev

Professional Legal Culture of RF MVD Internal Troops Servicemen: Theoretical and Categorical Analysis

Key words and phrases: culture; justice; law; legal socialization; professional legal culture; servicemen of internal troops.

Abstract: The paper presents theoretical and categorical analysis of professional legal culture

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of internal troops of the MIA of Russia. The essence of this theoretical and legal category in the context of legal culture is considered.

Political science

K.M. Pashintsev, A.I. Lychagin

Some Key Features of the Chinese Factor in the Ukrainian Crisis

Key words and phrases: China; geopolitics; NATO's eastward expansion; Russia; Ukrainian crisis.

Abstract: The paper discusses the impact of the Chinese factor on the de-escalation of the Ukrainian conflict. The authors discuss the reaction of the Chinese public to the foreign policy of Russia and the opinions of Western leaders of China's position on the crisis in Ukraine.

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