

# Pedagogical Sciences

## **Pre-School Training of Children with Disabilities in Conditions of Inclusive Education**

*Zh.A. Amosova*

*Moscow State Teachers' Training University, Moscow*

*Keywords:* children with disabilities; quality of pre-school education; inclusive education; Federal state educational standard; speech pathology science; legal ideology; concept of inclusive society; unhindered learning environment.

*Abstract:* The article raises the problem of pre-school training of children with disabilities in conditions of inclusive education. The quality of the pre-school education is considered in connection with the transition of pre-school institutions to the Federal state educational standards. The conditions of creating an unhindered learning environment where healthy children interact with disabled children are studied. It is concluded that inclusive education should be based on legal ideology and the concept of inclusive society. The crucial role of educational institution managers in providing the necessary resources to support all participants in the educational process is discussed.

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## **The Model of Developing Cross-Cultural Relations Competence in Psychology Students**

*S.I. Belova*

*University of Russian Academy of Education, Moscow*

*Keywords:* competence; cross-cultural relations; model; pedagogy; psychological education; formation of competence.

*Abstract:* In this article, the model of developing cross-cultural relations competence in psychology students is considered. The didactic principles of its implementation are revealed, the components and levels of formation of the competence are defined.

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## **The Regional Component for Developing Intercultural Competence in Non-Linguistic Students**

*A.Z. Ibatova, L.V. Vdovichenko*

*Surgut Oil and Gas Institute – Branch of Tyumen State Oil and Gas University, Surgut;*

*Surgut State University, Surgut*

*Keywords:* regional component; specific principles of foreign language teaching.

*Abstract:* This article discusses the specific principles of foreign language teaching at university in the process of implementation of the regional component of the federal state standard of higher education.

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## **Some Aspects of Using Critical Thinking Technology in Teaching “Life Safety” Course**

*A.V. Nedelyaeva*

*Minin Nizhny Novgorod State Pedagogical University, Nizhny Novgorod*

*Keywords:* life safety; pedagogical technology of developing critical thinking through reading and writing.

*Abstract:* The article covers the basic stages of the pedagogical technology of developing critical thinking. Special attention is paid to the implementation of this technology in the study of the topic “Current Problems of Security” in the “Life Safety” course.

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## **Methods of Student Assessment**

*L.V. Parkhomenko, A.V. Parkhomenko, N.V. Naumova*

*Tambov Branch of Russian Presidential Academy of National Economy and Public Administration, Tambov*

*Keywords:* method of expert evaluations; paired comparisons; discipline rank; student ranking; student knowledge evaluation system.

*Abstract:* The analysis of existing systems of student knowledge evaluation showed their inefficiency. We propose a method of student assessment on the basis of the method of paired comparisons. The use of this method has shown increasing confidence of teachers and students in the assessment system.

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### **Organizational and Methodological Training of Cadets for Safe Operation of Technical Facilities**

*A.L. Pozdnyakov*

*Immanuel Kant Baltic Federal University, Kaliningrad*

*Keywords:* methodological work; cadets' training; structure; operation of technical facilities.

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*Abstract:* The paper discusses the problems of naval cadets' training at higher education institutions for safe operation of technical facilities. Organizational and methodological aspects of cadets' training are considered, elements of training structure, learning objectives, features and factors of the system of cadets' training are specified.

### **The Problem of Student Subjectivity in Conditions of Computerization of Education**

*V.V. Pshenichnaya, L.N. Borisov, N.V. Osipova*

*Moscow Witte University, Moscow*

*Keywords:* computerization; subject; diagnostics; motivation; cognitive activity; education.

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*Abstract:* The article raises the question of computerization of education as one of the most relevant issues in post-industrial society. We discuss the influence of technical novelties on students' motivation and development of information skills required for out-of-class work at university and in future professional activity.

### **The Experience of Social Support and Initial Socialization in Family: the History of the Problem**

*A.B. Serykh, D.V. Lifintsev, A.N. Antsuta*

*Immanuel Kant Baltic Federal University, Kaliningrad*

*Keywords:* education; parent-child relationship; affection; socialization; social support.

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*Abstract:* We discuss psychoanalytic and behavioral models of socialization and the basic research programs of socialization. We describe the history of research into child-parent relationship styles, analyze the studies of K. Levin, A. Baldwin, T. Adorno, E. Frenkel-Brunswick, and D. Baumrind.

### **Effective Experience of Training Specialists in Housing and Communal Services:**

*The Role of Webinars in Specialists Training*

*Zh.V. Smirnova, M.V. Mukhina*

*Minin Nizhny Novgorod State Pedagogical University, Nizhny Novgorod*

*Keywords:* bachelor's training; the role of practice in learning; the value of webinar; service industry, housing and communal services.

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*Abstract:* The paper summarizes the results of the webinar "The state of housing and communal services in the Nizhny Novgorod region" conducted by the Department of service technology and technological education of Minin Nizhny Novgorod State Pedagogical University. The article describes the experience of training specialists in the field of housing and communal services organized as a step-by-step process. The goal of professional training is defined as meeting the needs of a particular individual and the staffing needs of the industry.

### **Empirical Analysis of Psychological Readiness of Penal System Workers for Applying Innovative Technologies in Professional Activity**

*Yu.M. Tikhomirova*

*Academy of Law and Management of the Federal Penal Service of Russia, Krasnoyarsk*

*Keywords:* empirical analysis; empirical research; innovative technologies; penal system workers; structural components and types of psychological readiness for professional activity.

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*Abstract:* This paper presents an empirical analysis of structural components and types of psychological readiness of penal system workers for applying innovative technologies in their professional activity. The evaluation of the levels of development of readiness components has been made.

### **Organizational and Methodological Bases of Cadets' Military Education at Military Universities of the Syrian Arab Republic**

*E.I. Fedak, M.S. Saaid, S.Yu. Ovsyannikov*

*Military University of the Ministry of Defense of Russia, Moscow*

**Keywords:** Syrian Arab Republic; principles of military education; cadets of military universities; educational process.

**Abstract:** The article examines the organizational and methodological foundations of military training of cadets of military schools, the nature and methods of education used in the educational process.

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### **The Project of Creating a Park for Children with Sensory Deprivation at the Summer School of the Potanin Foundation as a Social Technology**

*K.O. Khvostunov*

*Sechenov First Moscow State Medical University, Moscow*

**Keywords:** sensory deprivation; social adaptation; social technology; sensory park; sensory stimulation.

**Abstract:** The article analyzes the problem of rehabilitation and social adaptation of children with sensory deprivation and examines the experience of establishing sensory parks for children as a special social technology that ensure their full integration into society of healthy children, explains the main stages and social mechanisms for the implementation of the Park model at the regional level.

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## **Construction and Architecture**

### **Analysis of the Impact of Water-Saturated Anisotropic Ground Thickness on Deformations of the Building Foundation**

*A.R. Baymakhan, A.A. Seynasinova, A.S. Kopenbaeva, R.B. Baymakhan*

*Al-Farabi Kazakh National University, Almaty (Kazakhstan);*

*Academy of Civil Aviation, Almaty (Kazakhstan);*

*Kazakh State Women's Pedagogical University, Almaty (Kazakhstan)*

**Keywords:** anisotropy; water saturation; soil deformation; the base; the foundation; layered structure; liquefaction; crack.

**Abstract:** The paper shows the data on the mass caving and the destruction of houses built on the soft ground. The cross-section of one of these buildings, along with the foundation and the soil under the foundation base is simulated by the finite element method. The study identifies the results of studies of various degrees and available options for water saturation of under foundation base on strained state of buildings and the foundation under its own weight, leading to the destruction.

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### **Background and Features of Development of the Secondary Market of Construction Machinery in Russia**

*Z.R. Tuskaeva*

*North Caucasus Mining and Metallurgical Institute, Vladikavkaz*

**Keywords:** secondary market; primary market; market for used construction equipment.

**Abstract:** The article deals with the problems in the use of secondary market for construction equipment. The features of the construction machinery market in developed countries, with the subsequent possibility of using this experience in Russia have been analyzed. Conclusions and main proposals have been made taking into account the data of the expert survey.

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### **Reliability and Validity of Intersections Risk Assessment Using Desk Data Analysis**

*S.A. Ertman, Yu.A. Ertman*

*Tyumen State Oil and Gas University, Tyumen*

**Keywords:** intersection; traffic flows; road traffic; intersections risk assessment.

**Abstract:** The features of performing risk assessment of intersections using different methods are reviewed; using desk analysis, the limitations obtained by a priori knowledge for transport and geometric characteristics of intersections are exemplified by the Tyumen city intersections.

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# Machine Building and Engineering

## **Decrease in Fire and Industrial Danger of Technological Processes**

*V.L. Adamyan*

*Rostov State University of Civil Engineering, Rostov-on-Don*

*Keywords:* tools; techniques; industrial and fire safety; personnel; labor discipline.

*Abstract:* The paper investigates the conditions of occurrence of fire and industrial danger of technological processes. The results of the study showed that every action of the maintenance staff includes motivational, orientation and executive components, the deviation of any one of them can result in an erroneous action. Violation of the motivational part of the action is manifested in the reluctance to perform certain actions as a result of underestimating the dangers, risk-taking, violations of labor discipline.

page 72-74

## **Intensification of Innovations in the Implementation of Joint Projects between Universities and Engineering Companies**

*A.S. Vasilyev*

*Petrozavodsk State University, Petrozavodsk*

*Keywords:* engineering companies; innovations; intensification; complex projects.

*Abstract:* The example of Petrozavodsk State University shows the experience of the implementation of joint projects together with engineering and industrial enterprises.

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## **Control System with the Main Positive Feedback**

*E.V. Guseva, V.G. Slusarenko*

*Sevastopol State University, Sevastopol*

*Keywords:* stability control system; main feedback; transition process.

*Abstract:* This article discusses the electromechanical system with a positive primary feedback. A special feature of this system is to maintain stability with the increased error. The stability of the system was verified using the root stability criterion, as well as plotting the transient output coordinates in Mathcad software environment.

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## **Mathematical Models of Laws of Changes of Operating Conditions in Time**

*R.A. Ziganshin, N.S. Zakharov, A.V. Ziganshina*

*Tyumen State Oil and Gas University, Tyumen*

*Keywords:* spare parts; transport and technological machines.

*Abstract:* This paper considers the problem of supply of spare parts when using transport and technological machines in oil and gas. The structure of the system is examined. The main mathematical models of laws of changes in the intensity of operation in time are defined.

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## **The Study of Methods of Forming a Stable Contact between the Layers of a Multilayer Thin Film Board**

*S.Z. Puryzhinsky, D.V. Pebalk, K.S. Zhukov, S.A. Ryshevich, A.V. Kochanov*

*AO MRTIRAN, Moscow;*

*AO MRZ Temp, Moscow*

*Keywords:* aluminum nitride; contacts transition resistance.

*Abstract:* This article presents visualization of the contact resistance between the upper and lower metallization layers separated by a dielectric layer. The presented images of scanned surface of the contacts were made with the help of modern techniques, using the equipment allowing for the study of the surface structure. The images showed a picture of the structure of the contact groups in consistency with the production technology. Also, the authors described methods of creating reliable, reproducible contacts with low resistance transition.

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# Information Science, Computer Engineering and Management

## **Website as a Computer Program: Technical and Management Analysis**

*K.E. Amelina, B.N. Korobets, A.A. Kravchenko*

*Bauman Moscow State Technical University, Moscow*

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*Keywords:* computer program; copyright; intellectual property rights; state registration of computer programs; website.

*Abstract:* The article describes the procedure for establishing one of the possible modes of protection of websites as structural elements of the intellectual property, namely, computer programs. The article also specifies the advantages of such mode of protection, as well as difficulties and constraints in its implementation.

### **To the Question of Dynamics of Change in the Needs Ratio**

*O.M. Belichenko, M.N. Somova, S.V. Lukicheva, O.N. Kovalenko*

*Siberian State Technological University, Krasnoyarsk*

*Keywords:* demographic theorem; limiting factor; power law; exponential law.

*Abstract:* We describe the ratios between exponential and power laws of growth and features of the exponential law; we justify the exaggeration of the contradiction in the growth rate of the population and means of subsistence. The dynamics of the change of the needs ratio is investigated. The demographic theorem has been clarified.

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### **Method And Analysis Model For Operative System Protection Against Rootkit Attacks**

*V.I. Milushkov, A.A. Mitrushin, A.N. Lyulchenko, A.A. Menshchikov, V.G. Shved*

*St. Petersburg National Research University Information Technology, Mechanics and Optics, St. Petersburg*

*Keywords:* formal method; operation systems; formal specification; rootkit; kernel rootkit.

*Abstract:* This article explores the information security threats against Linux operation system using rootkit technology. The authors proposed a method and an analysis model for operative system protection using formal semantic graph.

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### **Modeling of Calibration of Strapdown Inertial Navigation Systems Using Kinematic Euler Equations**

*S.G. Nikolaev, Yu.V. Ivshina*

*Perm National Research Polytechnic University, Perm*

*Keywords:* fiber-optic gyroscope; accelerometer; instrumental error; strapdown inertial navigation system; calibration; error model.

*Abstract:* We consider modeling of calibration of strapdown inertial navigation systems based on fiber-optic gyroscopes in a static mode on a motion test device using the Euler kinematical equations.

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### **The Study of the Impact of Technological and Geometrical Parameters on the Stability of the Isothermal Drawing Process of Quartz Tubes**

*V.P. Pervadchuk, D.B. Vladimirova, A.L. Derevyankina*

*Perm National Research Polytechnic University, Perm*

*Keywords:* drawing of optical fibers; stability.

*Abstract:* We consider the issues of stability of isothermal drawing process of quartz tubes. The drawing process is described by a system of differential equations in partial derivatives. In order to study the stability of the system the linearization of the system was made, the method of separation of variables and the finite-difference method were applied. The dependence of the process stability on the frequency rate of drawing, the Reynolds's number and the workpiece radius was identified.

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### **The Problem of Optimum Placement of Internet Advertising**

*N.V. Petukhova, T.A. Osechkina*

*Perm National Research Polytechnic University, Perm*

*Keywords:* Internet advertising models; problem of optimization; dynamics equation.

*Abstract:* We analyze the dynamics of redistribution between advertising platforms, specify features of Internet advertising, and set the task of two-criterion optimization of Internet advertising. The example of the solution of the task is given.

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### **Aspects of the UML-Modeling Method for Domain-Specific Economic Information Systems on 1C: Enterprise Platform**

*S.N. Shirobokova*

page 119-125



*Platov South-Russian State Polytechnic University, Novocherkassk*

*Keywords:* information systems development; data model; Unified Modeling Language UML; class diagrams.

*Abstract:* The article describes the applied aspects of the author's methodology of using a unified modeling language (UML) for developing object data models of the domain-specific economic information systems on 1C: Enterprise platform.

## **Economic Sciences**

### **State Regulation of Investment Activity at the Macroeconomic Level**

*I.V. Androsova, E.Yu. Charochkina, E.S. Sokolnikova*

*Southwestern State University, Kursk*

*Keywords:* government; investments; investment activity; public investment policy.

*Abstract:* The article deals with the study of the process of regulation of investment activity of the national economy. The main drawbacks of the investment legislation in Russia and the main directions of improving state regulation of investment activity have been defined.

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### **Practical and Methodological Problems of Innovation Strategy Gas for Distribution Organizations**

*A.G. Garkushin*

*Gubkin Russian State University of Oil and Gas, Moscow*

*Keywords:* gas distribution organizations; innovation; innovative investment activity; strategic planning.

*Abstract:* This paper deals with the process of adopting strategic concepts designed by the state and the corporation, including the aspect of innovation and investment, by the lower levels of management, using cascading and correlation matrices. The application of a balanced scorecard will allow solving the problems related to the conversion of strategic goals into concrete performance indicators and establishing a close relationship between the objectives and specific performance indicators, as well as business processes or innovative projects.

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### **Regional Development Strategies: Theoretical Aspects**

*N.V. Kulik*

*Dubai International Financial Center, Dubai (UAE)*

*Keywords:* regional development strategy; distance factor.

*Abstract:* The article focuses on theoretical aspects of the problem of regional development strategies. These strategies are evaluated from the perspective of the company competitive advantages that can be transferred from its domestic market to a new market. The paper suggests a multi-dimensional approach to the analysis of antecedents influencing the company decision on entering a new regional market.

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### **Prospects for Virtualization of Organizations in Conditions of Global Economic Crisis**

*E.V. Melyakova*

*St. Petersburg State University, St. Petersburg*

*Keywords:* virtual organization; organizational structure; network organization; economic crisis.

*Abstract:* The article considers the formation and development of the network virtual organizations. The author analyzes the background and benefits of moving to the virtual structure in the context of the global economic crisis.

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### **Problems and Ways of Improving HR Management**

*A.M. Mirzoev*

*Institute of Economics of the National Academy of Sciences of Azerbaijan, Baku (Azerbaijan)*

*Keywords:* personnel management; management problems; management improvement.

*Abstract:* The article explores the concept of HR management, and the problems and ways of improving HR management at service enterprises. The necessity of applying an all-round approach to the formation of the national management given the features of national mentality,

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a variety and width of conditions of the country, has been discussed.

### **Main Features of Economic Regulation of Investment Activity in Agro-Industrial Sector of the Russian Federation**

*A.I. Tikhonova*

*State University of Land Management, Moscow*

*Keywords:* investment activity in agriculture; economic regulation of investment activity; state regulation of investment activity; economic mechanism; investment planning.

*Abstract:* The issues of strengthening the independence of the country in the food sector, and consequently the efficiency of agricultural production and import substitution are particularly relevant in conditions of intense external political and economic environment. The development of the agricultural sector of the economy requires billions of dollars in investment, which is impossible without the creation of attractive conditions and state regulation of investment activity. The main feature of the investment activity in agriculture is that investments are undertaken in natural resources thus making this operation more risky and capital intensive, and the investment takes longer than in other sectors of the economy. This article explores the concept and essence of investment, and also gives the analysis of the main trends in the development of economic regulation of investment activity in agriculture in the Russian Federation. Also, the main problems faced by potential investors willing to invest their savings in agricultural enterprises and agribusiness have been analyzed. In addition, the role of state regulation in the agricultural investment and measures to be taken to ensure that the investment climate in the agricultural sector is favorable, are considered.

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## **Proceedings of the IV International Scientific Practical Conference «Challenges and Opportunities of Modern Science»**

### **Construction and Architecture**

#### **Features of Designing and Constructing Buildings and Structures in Conditions of Rapidly Developing Information Technologies**

*P.A. Mitroshin, D.E. Menshakov*

*Branch of Dubna University – Dmitrov Institute of Continuing Education, Dmitrov;  
Russian University of Peoples' Friendship, Moscow*

*Keywords:* BIM; life cycle; Information modeling of buildings; construction and operation.

*Abstract:* The article discusses the use of information modeling, which allows for a new use of the life cycle of the investment construction project. The article highlights the advantages of attracting investors, using a completely new approach to financial flows planning at all stages of the life cycle of the facility construction.

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### **Machine Building and Engineering**

#### **Interference between a Tool and a Convex-Concave Profile of a Workpiece**

*I.A. Chetverikov*

*Peter the Great St. Petersburg Polytechnic University, St. Petersburg*

*Keywords:* complex surface; surface forming; exception of interference between a tool and a workpiece; end milling; capabilities of non-specialized equipment.

*Abstract:* The paper describes the results of the research into the possibility of forming surfaces of complex form on the equipment with three controlled axes. The investigated method of forming is a string contour milling of turbine blade profile with end mill. The main criterion of the normal processing is the absence of interference between a tool and a workpiece at the secondary cutting zones. The proposed method of interference elimination is based on constructing limiting tangents at the points of beginning and end of the concave part of the profile. The use of the method allows determining the range of possible position of the axis of the workpiece rotation relative to the tool.

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## Economic Sciences

### **Particularities of Improving the Mechanisms for Analysis and Prevention of Threats of Economic Security of Russia in Conditions of Globalization**

*M.V. Danilina, K.Yu. Bagratuni, M.V. Khachatryan*

*Financial University under the Government of the Russian Federation, Moscow;*

*Plekhanov Russian University of Economics, Moscow*

*Keywords:* economic security; Russia; mechanisms; threats; prevention; globalization.

*Abstract:* The article explores the ways of improving mechanisms for the analysis and prevention of threats of economic security in conditions of globalization. Using the analysis data we offer methods and mechanisms of improving the system of the analysis and prevention of threats of economic security of Russia.

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### **The Specifics of Treasure Investments**

*A.N. Litvinov, M.V. Danilina, K.Yu. Bagratuni*

*Financial University under the Government of the Russian Federation, Moscow;*

*Plekhanov Russian University of Economics, Moscow*

*Keywords:* treasure investments; precious metals; gems; precious stones; antique; treasure.

*Abstract:* Treasure investments can be a very efficient method of investments and make a big profit given all possible kinds of assets and risks.

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### **Scenarios of the Russian Soft Drinks Market Development and Its Main Players' Strategies**

*V.YU. Chernova*

*Russian University of Peoples' Friendship, Moscow*

*Keywords:* market; soft drinks; strategy.

*Abstract:* The article touches on the state of the soft drinks market and defines the groups of its key players. The strategy of various groups of the market players is considered; models of soft drinks market development are created.

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## Earth Sciences

### **Cartographic Problems of Small Rivers Flow Calculations in the Forest Zone**

*A.Yu. Vinogradov, M.L. Markov*

*Kirov St. Petersburg Forestry University, St. Petersburg*

*Keywords:* calculated hydrological characteristics; homogeneous series of observations; topographic maps.

*Abstract:* According to requirements of SP 33-101-2003, large-scale maps are used to determine the characteristics of small hydrographic basins. Determination of calculated hydrological characteristics was made using homogeneous series of observations. It is important to keep the surrounding conditions of the gauging station unchanged, so that they could not significantly affect the results of observations. The analysis of the cartographic material showed that these changes are quite significant, and the series longer than 25 years cannot be considered as homogeneous.

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### **Water Ice Deposits on the Surface of the Moon**

*S.G. Pugacheva, E.A. Feoktistova, V.V. Shevchenko*

*Sternberg State Astronomical Institute, Moscow*

*Keywords:* Moon; water ice; space vehicle LRO; epithermal neutron; hydrogen.

*Abstract:* The article presents the data regarding water presence in the lunar soil. The article gives the description of the result of water searching experiments by Clementine, Lunar Prospector, Lunar Glob and LRO space vehicles. The task to search for water in the polar caps was successfully solved by means of the space scientific apparatus – neutron spectrometer installed at the American space vehicle Lunar Reconnaissance Orbiter (LRO). The epithermal neutron flux attenuation from the surface area of the planet is an evidence of hydrogen availability in the soil. Availability of 3–5 weight fraction of hydrogen in the soil is equal to the content of water in the soil of 30–50 weight fractions. The areal variability on the Moon

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appears as a result of the distinction in the soil rock forming element content and slight changes in the hydrogen concentration (50–100 ppm). The main hypotheses of the ice water origination on the Moon are discussed in the article. We detected the areas whose soil probably contains water ice.

## **Biotechnology and Medicine**

### **A Comparative Study of the Impact of Lime and Lavender Essential Oils Inhalation on Human Skin Electrical Conductivity Index**

*E.E. Aronina*

*Moscow State Pedagogical University, Moscow*

*Keywords:* electrical conductivity; essential oil; acupuncture; inhalation.

*Abstract:* This article describes the results of a comparative influence of inhaled lime and lavender essential oils on the electrical conductivity of human skin. The Nakatani's method was used to measure the electrical conductivity of 24 biologically active points. The randomized group of study consisted of 100 people. The indicators of relative electrical conductivity of the skin at acupuncture points were determined before and after inhalation.

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### **The Modern View on Etiology, Diagnostic Principles and Clinical Variants of Persistent Abdominal Pain Syndrome**

*I.V. Barkhatov, N.A. Barkhatova*

*South Ural State Medical University of the Ministry of Health of Russia, Chelyabinsk*

*Keywords:* gastroenterology; abdominal ischemia; angiopathy.

*Abstract:* We analyzed the results of the examination of 366 patients with chronic abdominal pain followed by various disorders of the digestive system. Depending on the presence or absence of ultrasound evidence of pathology of visceral arteries, the patients were divided into two groups: those with angiogenic and non-angiogenic pathology. The comprehensive study of the patients included endoscopic methods of diagnosing diseases of the digestive system, ultrasound and functional two-phase dopplerography of visceral arteries with a food load. The results showed that in 38.8 % of cases the pathology of the digestive system was of an angiogenic character. At the same time 18 % of patients had a steno-occlusive disease of visceral arteries, and in 20.8 % of cases in the absence of ultrasound evidence of arterial pathology we observed functional disorders of visceral blood supply. Using the findings of the study we offer an original classification of visceropathy with visceralgia including its non-angiogenic variant, visceropathy against the backdrop of angiopathy, and angiogenic clinical variants of digestive system pathology; we also describe an algorithm for the diagnostics and treatment tactics for this group of patients.

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### **The Effect of Angioropic Therapy and Indirect Revascularization of the Limbs on the Microcirculation of Tissues for Diabetic Foot Syndrome**

*N.A. Barkhatova*

*South Ural State Medical University of the Ministry of Health of Russia, Chelyabinsk*

*Keywords:* diabetic foot syndrome; prostaglandin E1; osteoperforation laser; laser Doppler flowmetry.

*Abstract:* The paper describes the results of a comparative study of microcirculation in 167 patients with diabetic foot syndrome after a conservative therapy and indirect laser revascularization of the limbs. The correction of arterial insufficiency by vascular drugs led to a slight reduction in tissue perfusion, which determined the high frequency of high limb amputations. A combination of vascular therapy and indirect revascularization of limbs led to a distinct increase in indicators of oxygenation, blood supply and tissue perfusion; 1.5 times reduction in the treatment period, 12 times lower incidence of high limb amputations and an increase in the effect of feet preserving operations.

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### **Dynamics of Lung Function Development in Female Students Living in Extreme Conditions (Exemplified by the Middle Ob Area)**

*N.L. Ivanova, O.A. Tsepko*

*Surgut Oil and Gas Institute – Branch of Tyumen State Oil and Gas University, Surgut;*

*Surgut State University, Surgut*

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*Keywords:* female students; respiratory system; extreme living conditions; the Middle Ob.  
*Abstract:* This article deals with the health of female students living in extreme conditions. We conducted the research into external breath of female undergraduate students (the Middle Ob Area).

### **The Experience of Using Zinkteral in Patients with Hypertension**

*Yu.A. Kotova, A.A. Zuikova, A.N. Pashkov*

*Burdenko Voronezh State Medical University of the Ministry of Health of Russia, Voronezh*

*Keywords:* hypertension; superoxide dismutase; zinc; zinfteral.

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*Abstract:* We examined the role of zinc in patients with hypertension. It was established that preparation of zinc sulfate influences the course of hypertension, as well as free radical oxidation indicators.

### **Phoresis Apis Relations in the North-Eastern Part of the Republic of Tatarstan**

*V.V. Leontyev*

*Elabuga Institute – Branch of Kazan (Volga) Federal University, Elabuga*

*Keywords:* Acariformes; Apinae; Nomadinae; Parasitiformes; Xylocopinae; mites; phoresis; phoresy; Apis.

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*Abstract:* During the preliminary investigation of the phoretic apis in the north-eastern part of the Republic of Tatarstan 8 species of mites out of 4 cohorts (Oribatei, Acarida, Gamasina, Uropodina), 9 families and a representative of dried Russian flies (*Meloe proscarabaeus*) were found. Dominant species and ecological groups of phoretic species were revealed on the basis of topical and trophic relations.

### **Philosophical Aspects of the Medicalization of Life (Case Study of Modern Transplantology)**

*E.M. Shkomova*

*Lomonosov Moscow State University, Moscow*

*Keywords:* medicalization; personalized medicine; philosophy of science; transplantology.

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*Abstract:* The role and importance of medicine in the modern world is extremely high. Today, we can speak of the primacy of medical discourse in the perception of the human body, disease and health. The transformation of the role of medicine has led to the establishment of a process known as medicalization of life. One manifestation of this process is the formation and development of transplantology. This area of medical science and practice actualizes philosophical issues that require a deep analysis.

## **Historical Sciences and Archeology**

### **Anti-Hitler Opposition and Confrontation in the Eastern Policy in 1941–1942**

*K.M. Aleksandrov*

*St. Petersburg Institute of History of the Russian Academy of Sciences, St. Petersburg*

*Keywords:* Anti-Hitler opposition; Eastern policy; Gehlen; von Dellingshausen; Propaganda Department; von Stauffenberg; Strik-Strikfeldt

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*Abstract:* The article describes the views of participants of anti-Hitler opposition of the Nazi Eastern policy during the first period of war of Germany against the USSR. Special attention is paid to the members of opposition, their relations with Russia and specific proposals on changes in the Eastern policy within the concept of political war.

### **Communication Ethnography of the Northern Tungus: Transformation of the Traditional Etiquette**

*S.A. Alekseeva*

*Institute of Humanitarian Research and Indigenous Peoples of the North, Siberian Branch of the Russian Academy of Sciences, Yakutsk*

*Keywords:* social interaction models; man and nature; ritual; traditional models of behavior; Tungus; family; valuable orientations; communication ethnography; ethnic diplomacy etiquette.

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*Abstract:* The article makes an attempt to study the etiquette and culture of the Tungus. The

traditional etiquette of the Tungus has not been a subject of special scientific research; the available literature does not explain the etiquette evolution of the Tungus. The literature analysis clearly showed that special studies on the reconstruction of the Evens and Evenks etiquette, behavior and traditional culture are required.

### **Social and Political Life of the Astrakhan Region in 1965–1985**

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*Keywords:* Astrakhan; Communist party; CPSU; social and political life; 1965–1985.

*Abstract:* The article provides an analysis of the socio-political situation in the region in 1965–1985. The most important aspects of the political life of the population of the Astrakhan region in 1965–1985 are described. The scientific novelty of this study lies in the fact that this is the first comprehensive study in a regional historical science, which presents the social and political life of the population of the Soviet province. Socio-political and mass-political climate in the Astrakhan region was studied; the most important factors influencing socio-political views of the residents were identified. For the first time in the regional historical literature it has been attempted to study the political and social climate of the region. The scientific novelty of the study lies in the fact that a significant number of archival documents from the collections of the regional and departmental archives were used. Thus, it was possible to trace the dynamics of socio-political attitudes of different groups of residents of the Astrakhan region. The practical significance of this study lies in the possibility of using the results by the law enforcement bodies and authorities of the Astrakhan region, political parties and public organizations in the formation of stable socio-political attitudes of the population of the region. The study materials can be used to prepare a comprehensive study on the history of the region, textbooks, courses of lectures for institutions of secondary and higher professional education.

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### **Bretel Torvaldsen. Sculpture Features in Creative Works of 1820–1830**

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*Keywords:* Torvaldsen; sculpture; relief; neoclassicism; classicism; romanticism.

*Abstract:* From 1820 to 1830 Bretel Torvaldsen reached his professional maturity. The neoclassicism sculpture features appeared in the shapes of romanticism. The article explores the round sculpture and the relief basic features in the most prominent works of the Danish artist.

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### **Philosophical Understanding of the Meaning of Life: Historical Evolution and Contemporary View (Part II)**

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*Keywords:* global issues; meaning of life; value; value system.

*Abstract:* The article examines the historical and contemporary interpretation of the concept of meaning of life. In present conditions, it is necessary for every person to create the right value system in order to preserve our common home, the Earth.

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## **Linguistics**

### **Word-Building Potential of English Political Acronyms**

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*Keywords:* acronym; abbreviation; abbreviated lexeme; word-building.

*Abstract:* The article explores the derivation potential of acronyms in the political discourse of modern English. Identification of existing acronyms with new words and creation of new occasional units have been noted. The examples from the English political on-line press have been analyzed.

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### **The Russian Historicisms from the Perspective of Active and Passive Vocabulary**

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*Keywords:* active vocabulary; passive vocabulary; historicism.

*Abstract:* The article describes the results of the study of Russian historicisms from the perspective of active and passive vocabulary, possibility of lexical units transition from one stratum to the other.

## Political Science

### **Methods of Verbal Impact and Myth-Making in the Political Discourse of Modern Media**

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*Keywords:* media; mythical image of enemy; symbolism; lexical units; Ukraine.

*Abstract:* The current political myths and methods of verbal impact which media resort to can neither authorize nor prohibit certain actions. Rather, they change people's minds, regulate and control their actions. Conventional methods of political violence do not produce such an effect. But it is only for a short time that modern media manipulative techniques are successful.

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### **Snap Elections in Turkey: Is it R.T. Erdogan's Right Decision or a Big Mistake?**

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*Keywords:* Turkey; Syria; Russia; region; president; elections; politics; party; majority position; republic.

*Abstract:* It is mentioned in the article that the elections that took place in June 7, 2015 led to significant changes in Turkey's political environment. The Justice and Development Party lost its status as the majority party, and pro-Kurdish Peoples' Democratic Party entered the Parliament, having shown a good result of 13 % of votes. The author analyzed the situation before the upcoming snap elections in the Grand National Assembly of Turkey on November 1, 2015, the change of political situation in Turkey and the events in Syria. It is stressed that snap elections in Turkey's parliament were important not only for Erdogan, but for the whole Turkey. The results of the elections will determine whether Turkey will become presidential republic or not.

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