

Biological Sciences

N.A. Dudenkova, O.S. Shubina, L.P. Teltsov

Morphological Changes of Interstitial Tissue of Testes of Male Albino Rats when Exposed to Lead Acetate

Key words and phrases: lead acetate; twisted seminal vesicles; interstitial tissue (interstitium); Leydig cells (glandulocytes); testes.

Abstract: We conducted morphological and morphometric study of interstitial tissue of testes of male albino rats, which were administered lead acetate perorally during postnatal ontogenesis. When rats were exposed to lead acetate, we observed changing of the shape, area, number of parts and Leydig cells in the interstitial tissue between the convoluted seminiferous tubules in the same field of view.

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Pedagogy and Psychology

A.A. Bulavkin

Broadcasting of Cultural Paradigms in Higher Education

Key words and phrases: culture; cultural paradigm; cultural competence; professional competence; network model of education.

Abstract: The paper analyzes the process of formation of the network model of education due to the reorientation towards the process of formation of common cultural competence of personality. We considered a cultural phenomenon with various research positions, identified trends in University education, related to the blurring of the boundaries of professional groups. The conclusion about the necessity of formation of students' intercultural competence was made.

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N.A. Grigoryeva, M.A. Simonova

Federal Programs as an Effective Tool of Public Policy in Russia

Key words and phrases: public policy, federal programs, performance, monitoring, socialization.

Abstract: The paper discusses the results of the implementation of the main objectives of federal and state programs in the field of child protection in the Russian Federation. The study is based on the project "Scientific and methodological support monitoring of target and integrated programs for children in the federal bodies of executive power and the entities of the Russian Federation".

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V.A. Degaltseva, Yu.P. Vetrov

Criteria and Indicators to Assess the Quality of Education

Key words and phrases: education quality; criteria; educational technology; performance; education management factors.

Abstract: The paper analyzes theoretical approaches to the problem of diagnostics of the quality of education aimed at improving management of the educational system. We described the criteria and indicators of diagnostics of the quality of education as an effective condition for improving the management of the regional system.

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I.V. Egorova

On the Structure of Speech Dysontogenesis in Preschool Children with Severe Speech Disorders

Key words and phrases: speech therapy; preschool, general underdevelopment of speech; dysarthria; motor alalia; defect structure; speech disorders.

Abstract: The paper deals with modern understanding of the structure of speech defects with dysarthria and motor alalia of preschoolers.

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Architecture and Construction

V.O. Suvorov, I.M. Apasova

Typology of Composite Topography as the Basis for Adoption of the Optimum Spatial and Planning Solution when Designing Dwellings

Key words and phrases: architecture; urban environment; relief; landscape.

Abstract: The paper describes the author's typology of composite topography which forms a basis for spaceplanning solutions of residential buildings on territories with composite topography. The proposed typology will help to complement the system of the general criteria for the relief description, thus giving the architect a complete, detailed description and enabling to select the type of building the most suitable for a concrete situation and find the most suitable design solution. Creation and development of this typology is aimed at the optimization of the technique of architectural design of residential buildings for composite topography.

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History, Philosophy and Sociology

N.L. Antonova, A.V. Merenkov

Informal Payments in Education: Sociological Dimension

Key words and phrases: pre-school education; informal payments; parent community; school.

Abstract: The paper describes the problem of informal payments in the education system (pre-school and school education), which is actively used by the community of parents. Based on sociological surveys conducted in Yekaterinburg, the paper states that parents use the practice of informal payments in order to obtain a place in a preschool educational institution, as well as to create conditions for the education of children in prestigious and status schools.

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Yu.M. Maltseva

Linguistic Experiment of the Early Twentieth Century and Its Influence on the Formation of Conceptual Constants of the European Theatrical Avant-Garde

Key words and phrases: avant-garde; avant-garde theater; profotuturism; Futurism; Dadaism; linguistic turn; linguistic poetic experiment.

Abstract: The article analyzes linguistic experiments of Futurism and Dadaism in order to establish the relationship and the value of their theoretical developments in the context of the linguistic turn in philosophy as well as its influence on the conceptual constants of the European theatrical avant-garde. The author traces the general logic of the transformation of language as a linguistic and artistic phenomenon and concludes the determining role of linguistic poetic experiment in the content of searches of theatrical avant-garde.

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V.P. Starostin, V.V. Petrov

Treatise "To an Everlasting Peace" of Immanuel Kant and Modernity

Key words and phrases: Immanuel Kant; categorical imperative; constitutional state; practical reason.

Abstract: The paper is devoted to the anniversary of the outstanding German philosopher Immanuel Kant and considers the ideas stated in his treatise "To an Everlasting Peace". Focusing on the basic provisions of the work, the authors try to have a new look at an ethic legal side of the foreign policy relations between the modern states. Despite the abstractness and formality of some ideas of the German thinker about an everlasting peace, the authors consider that they have enduring character and universal value.

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Engineering

M.D. Nosova, A.N. Ivanov

Interference Methods of Control over the Position of Objects using Phase Inversion Points of the Optical Signal

Key words and phrases: measurement; interference; phase.

Abstract: It is offered to use the inversion points of interference pattern to increase the angular measurements accuracy. The investigations have shown that position of these points can be defined with high precision by means of split aperture. It permits to create measuring circuits which will allow making angular measurement with error no more than 1 minute of arc in a range of order of several angular degrees.

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Mathematical Methods and Models

T.A. Shatueva

An Approach to Managing Inference Engine on Production Systems of Knowledge Extraction

Key words and phrases: inference engine; production systems of knowledge extraction; production rule; working memory; machine activation; Rete algorithm.

Abstract: The article is devoted to developing a method for managing the inference engine on the production systems of knowledge extraction. Production systems of knowledge extraction, which provides a method of managing, implement the methods of natural-language text processing and methods of extracting knowledge about the terms and semantic relations between them. It is known that the implementation of inference engine requires components such as knowledge base, fact base, working memory, the mechanisms of its formation, etc.

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Hence, in the management process of the inference engine it is necessary to consider the functioning of all associated with it components. Thus, the inference engine and its associated components form a system of inference engine (SIE). Due to the fact, that the functional characteristics of the SIE components change depending on the active knowledge production system (system product). An approach to managing the examined SIE is a two-tier management model. In the proposed management model, the first level is strategic one, providing a mechanism to adapt the system components to the processing of the active system product. The second level is active one, implementing the work of SIE components.

Electronics, Measuring Equipment, Radiotechnics and Communication

D.B. Solovyev

Comprehensive Method of Estimation of Electromagnetic Compatibility of Radio Electronic Devices of Communication

Key words and phrases: sea vessel; electromagnetic compatibility estimation; radio-electronic device; electromagnetic compatibility.

Abstract: The author proposes an estimation method of electromagnetic compatibility of radio-electronic devices. Principles of two-step estimation by using frequency and the energy criterion of electromagnetic compatibility are disclosed.

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Economic Sciences

A.N. Agafonova

On the Essence of Electronic Services

Key words and phrases: marketing services; consumer behavior; service; e-business; electronic services.

Abstract: The paper considered the prerequisites for the formation of a new direction of service activities on the Internet. A definition of electronic services is given and the characteristics of electronic services are described. The author's interpretation of the popular "service in action" for the sphere of e-business is proposed.

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G.K. Gabidullina

Foreign Methods of Economic Analysis to Forecast Enterprise Bankruptcy

Key words and phrases: research method; methods of expert evaluation; method of comparative analysis; methodology; expert method, the economic indicators.

Abstract: The article describes foreign methods of economic analysis using in the practices of constructing specific techniques of economic analysis, and in scientific research, aimed at search for the best solutions in economic issues.

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N.V. Klimanova

Is the Governmental Support to Housing Mortgage Lending One of the Instruments of Housing Policy's Implementation?

Key words and phrases: mortgage lending; housing policy; governmental support of housing mortgage lending.

Abstract: The paper analyzes different definitions of housing policies. Advantages and

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disadvantages of each of the definitions are proven. Under the analysis, the following definition of housing policy is offered: the activity of the federal and local governments aimed at the construction of residential buildings for low-income families, provision of conditions for citizens for purchase of living quarters, settling people from old and emergency housing, increasing the level of accomplishment of living quarters. Based on the given definition, the author concludes that the governmental support to the mortgage lending may be considered as one of the instruments of housing policy's implementation.

O.V. Nedoluzhko

The Analysis of the Concepts of Innovative System and Intellectual Capital in the Context of Educational Institution Innovation System Management

Key words and phrases: business potential; innovative system; innovative potential; intellectual capital; educational institution.

Abstract: The paper explores the specifics of concepts of innovative system and the intellectual capital in relation to management of innovative system of educational institution. The existing approaches to the concept of innovative system are analyzed. The works of the foreign and domestic authors investigating the essence and the maintenance of the intellectual capital have been studied. The interrelation between innovative system and the intellectual capital of the educational institution is proved. The possibility of using the existing technique of assessment of innovative potential concerning educational institution is analyzed. The structure of the intellectual capital on the basis of using two basic approaches is considered: from the point of view of formation of strategy of management by innovative system and from a position of its structure.

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Yu.V. Ragulina, N.A. Lebedev

Some Directions of the Evolution of Innovative Processes in the Industry of Macroregions

Key words and phrases: innovation processes; innovation policy; industrial competitiveness; development of macroregions; import substitution.

Abstract: The paper analyzes the planned measures to provide incentives for innovative growth in industry and macro-economy as a whole. The main challenges of developing import substitution have been discussed

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Legal Science

U.R. Dzhaparidze

The British Mandate in Jerusalem in 1918–1948

Key words and phrases: League of Nations conference; the Balfour Declaration; British Mandate in Palestine; status of Jerusalem; negotiation process; conflict between Arabs and Jews; division of Jerusalem; migration; Palestine liberation organization.

Abstract: The paper refers to the Mandate of Great Britain on the territory of Palestine from 1917 to 1947. Attention is mostly paid to the argument between Arabs and Jews during the second World War. The author also deals with to the ineffective policy of Great Britain on the territory of Palestine during the British Mandate. At the end of the article the author highlights pros and cons of British politics on the territory of Palestine.

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Political Science

A.A. Alautdinov

Theoretical and Methodological Approaches to Research into Regional Identity under Globalization

Key words and phrases: globalization; information society; conflict of identities; identity crisis; regional identity.

Abstract: The paper attempts to determine the impact of globalization and the information society on the mechanism of maintenance and reproduction of identity. Theoretical and methodological approaches to the study of regional identity have been studied. The overview of works and researches conducted in the area of regional identity suggests the existence of a number of theoretical and methodological problems that arise in the course of consideration of regional identity.

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M.A. Gordeeva, N.A. Medushevsky

Social Adaptation as a Mechanism of Social Tolerance Expansion

Key words and phrases: tolerance; empathy; cognitive conflict; normative approach; empathy.

Abstract: No society can exist and develop without effective systems of internal compromise, which, following the Western European tradition can also be named as tolerance culture. At the same time, this compromise is variable and in each case has its own unique interpretation based on the combination of social, political and cultural characteristics. In this context, the development of tolerance culture needs clear understanding of the influencing factors that can unite the society or on the contrary, to provoke deep conflict.

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Proceedings of the V International Scientific and Practical Conference

“The Role of Science in the Development of Society”

Social Economic Problems of Society Development

O.V. Voronkova

Global Aspects of Innovative Development

Key words and phrases: innovation; invention; inventions that changed the look of the modern world.

Abstract: Due to the introduction of innovations in the last 100 years, human life has changed significantly, more than in all previous history. At the beginning of XXI century, mankind has produced almost everything that has been a dream for many years.

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Bai Yuewei, Liu Xiaojuan

Features of Professional Burnout in the Service Sector

Key words and phrases: service sector staff; job burnout; features of the service sector.

Abstract: The paper explores the features of professional burnout caused by the specifics of the service personnel.

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L.G. Ivanova

Book Practices of Migrants in the Russian Regional Center: the Experience of Anthropological Research in Perm

Key words and phrases: urban culture; book culture of migrants; everyday life; reading practices of Uzbeks.

Abstract: This paper presents the results of anthropological research conducted in the city of Perm and aimed at defining the place of book culture of Uzbeks in the general culture of migrants.

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T.B. Malinina

Socio-Demographic Aspect of Road Accidents

Key words and phrases: socio-demographic problem; car; social risk; safety.

Abstract: The article provides the official statistics of road accidents in Russia. The analysis of some indicators shows that road transport is not safe, but on the contrary, it aggravates social and demographic situation, claiming the lives of thousands of young people of reproductive age.

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N.A. Khamitova

The Role of Science in the Development of Industry and Economy of the State

Key words and phrases: International Financial Reporting Standards (IFRS); investment; oil production; industry.

Abstract: Business development is accompanied by the increasing role of international integration in economy, imposes certain requirements for uniformity and transparency of the principles of formation and profit calculation, the tax base, investment conditions and capitalization of earnings in different countries. The economic growth of Azerbaijan will continue due to the development oil sector and also non-oil sectors of the economy. Positive

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impact of transition to IFRS has affected the rapid industrial growth of Azerbaijan.

E.V. Shapoval, N.O. Perepelkina, E.P. Mutavchi

Consumers' Perception of the Kaliningrad Region

Key words and phrases: tourism; regional brand; competition; consumers; tourists; territorial features.

Abstract: The paper describes the features and unique characteristics in the Kaliningrad region, necessary for the successful promotion of the tourism industry in the market and improvement of competitiveness.

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Information Technology Development

I.Ya. Lvovich, A.P. Preobrazhensky, V.N. Filipova

The Construction of Subsystem for Analyzing the Characteristics of Metal-Dielectric Antennas Based On a Rigorous Electrodynamics Approach

Key words and phrases: metal-dielectric antenna; method of integral equations; subsystem analysis.

Abstract: In this paper the algorithm of analysis of metaldielectric antennas based on the method of integral equations is considered. We used a dielectric waveguide, metal, and metal strips placed on top of the dielectric as antennas. On the basis of the considered algorithms proposed structure subsystem for analysis of the radiation patterns of antennas is proposed.

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D.S. Shcherbakov

Global Optimization of Innovative Enterprise Logistics System Based on the Method of Machine Learning

Key words and phrases: quantum cybernetics; machine learning; steady-state gain matrix; utility curve; global optimization.

Abstract: The paper investigates the problem of improving the integrated logistics management under the influence of globalization. A new approach and principles of quantum cybernetics for knowledge-intensive production have been discussed; an example of problem solving for optimizing micro-activity in equilibrium based on industrial studies information has been studied.

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Modern Philology Problems

T.I. Erofeeva

Gender Features of Urban Speech

Key words and phrases: stratification modeling; urban sociolect; gender; particular model.

Abstract: The paper deals with special aspects of men's and women's speech on lexical, syntactic and phonetic levels. The research is conducted within the frame of sociolect, which is the category allowing to consider the stratification variety of urban speech, including differences based on gender.

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Laruk Omar, M.V. Garanovich

Evaluation of Access to Scientific Information for Academic Users on the Web

Key words and phrases: publications, search query, bilingual skills, academic users.

Abstract: The publication of scientific articles becomes more and more important factor in the course of dissemination of knowledge and establishment of communication between scientists. The unreasonable expenses raised by private publishers (Elsevier, Springer, Wiley, etc.), pushed users to operate the potential of open access to scientific publications (free portals, free online magazines, archives, etc.). In article it is offered to estimate, at first, access to scientific information for the academic users to networks and to analyze the actual use of commercial electronic resources. Secondly, the purpose to analyze methods of information search of teachers and students of undergraduates is realized. Various skills (technical, bilingual, etc.) promoting relevant search of multilingual information among the academic users are shown.

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T.S. Nizgulov

Interpretation of English Legal Terms by Native Speakers (On the Material of Key Terms in Family Law)

Key words and phrases: English family law, terms, interpretation, semes.

Abstract: The article deals with the native speakers interpretation of basic concepts of family

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law in England. According to the results of the survey were identified the main senses of interpretations of terms of family law, were found features of perception, depending on gender and age.

E.V. Orlyatykh

Lexeme STATE in Naive Representation of Russian and English People

Key words and phrases: political lexis; lexeme; semantic component; experimental method; different cultural groups.

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Abstract: We studied the representation of the lexeme STATE in the Russian and English people's mind on the material obtained from 96 informants. Data handling was carried out on three semantic components of the word's meaning: conceptual, representative and evaluative.

I.K. Fedorova

“Cultural Dimension” of Translation in Prospect of Cross-Disciplinary Studies

Key words and phrases: translation; cultural transfer; text; culture; recipient; intercultural exchange.

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Abstract: The paper is dedicated to studies of concepts of translation as cultural transfer in modern translation studies and in other humanitarian sciences. Dialectical correlation of these two notions has been studied and prospects of interdisciplinary research have been analyzed.

A.S. Chernousova

Migration Processes: Search for Effective Methods of Research

Key words and phrases: migration; semiotic representation; image of migration community; image of recipient territory; association experiment; content analysis.

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Abstract: The paper deals with the problem of finding adequate techniques for studying migration processes. Versatility of the phenomenon under study, migration, opens new horizons in the designated topic to scientists, including humanitarians. The authors explain the possibility and the necessity of studying the migration phenomenon by methods of modern linguistics.

Progressive Pedagogy

N.N. Vasilyeva, S.V. Feoktistova

Psycho-Pedagogical Approach to Children's Adaptation to School

Key words and phrases: adaptation; children of primary school age, psychological and educational support

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Abstract: This paper covers the basic psychological and pedagogical approaches to the adaptation of first-graders to learning in school. The authors consider the adaptation of the child to school as a new formation of the entire system of interaction between educational space subjects. Particular attention is given to factors such as technology education in primary school and psycho-physiological maturity.

N.A. Gunina

On Some Issues of Integrating Distance Learning Courses into University Professional Training

Key words and phrases: distance learning; Internet-based technologies; Web 2.0; informational and educational environment; pedagogy.

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Abstract: The advantages of distance learning for the implementation of the basic education programs at the university have been highlighted. Design stages of distance learning courses have been specified. The problems and challenges associated with the introduction of distance learning technologies in higher education have been discussed.

N.A. Dibtseva

Pedagogical Support of Supplementary Education Organizations for Children as a Pedagogical Problem

Key words and phrases: supplementary education for children; pedagogical support of supplementary education institutions for children; interaction resources.

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Abstract: The paper raises the question of improving the effectiveness of organizations of supplementary education for children today. The author proposes to solve this problem by offering means of pedagogical support to organizations of supplementary education for children, influencing the development of the competence of teachers and educational opportunities for children.

N.P. Sheveleva, B.O. Polishchuk, N.V. Zonova, N.G. Savkina

Experience of Developing Students' Tolerant Outlook through Business Games

Key words and phrases: foreign trade; business game; cultural competence; patriotism; tolerance.

Abstract: The paper describes the development and longterm testing of the business game promoting, in addition to the main tasks, the formation of students' tolerant outlook. The authors analyzed the criteria and the level of students' tolerance before and after the game. Special attention is paid to the reasons for the lack of tolerance of some modern students.

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Relevant Issues of Biotechnology and Medicine

N.N. Sadykova

Blood Circulation of Rabbit Spleen in the Age Aspect

Key words and phrases: spleen; blood circulation; postnatal ontogenesis.

Abstract: The paper deals with the problem of age-related changes in rabbit's spleen blood circulation (from the stage of birth up to two years). Dichotomy vessels were determined to be typical rabbit's spleen traits.

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Important Issues of History, Psychology and Sociology

N.L. Antonova, A.V. Merenkov

Russian Education: Informal Payments

Key words and phrases: social practice; informal payments; education and parent community.

Abstract: This paper deals with the problem of informal payments as a practice used by parents in the general education system. Based on the results of sociological surveys conducted in Yekaterinburg, it is shown that the parent community generates and reproduces the practice of informal payments to obtain a place in an educational institution and to create conditions for the successful education of children.

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V.V. Muromtsev, A.V. Muromtseva

Information Space of a Person in Conditions of Modern Virtual Communication

Key words and phrases: natural communication; virtual communication; multimedia; information security.

Abstract: This paper describes the results of years of the authors' research in the field of virtual communication and human interaction with multimedia facilities. The authors analyzed fundamental changes in the information space of a person, described the main provisions and results of the study. The objectives for further research in this area have been formulated.

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Important Issues of Accounting, Analysis and Auditing

M.V. Danilina

Development of the fuel and energy complex of Russia

Key words and phrases: energy; fuel and energy complex; gas; oil; Russia.

Abstract: Fuel and energy complex is the key complex in the development of every country. In Russia it plays a special role. At the same time, a number of factors such as the extent of the territory, climatic conditions, etc. inhibit the rapid development of the complex in this country. The article analyzes these factors and identifies the potential of the growth of the fuel and energy complex.

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N.M. Klimentyeva, E.A. Gorshkov, N.V. Krasovskiy

Analysis of Financial Statements of Municipality

Key words and phrases: horizontal analysis; investments; investment activity; investment attractiveness; coefficients of financial capacity increase; comparative and factor analysis; trend analysis; financial statements of municipality; financial stability.

Abstract: The authors have shown the traditional methods of financial analysis of financial statements of local municipalities. We proposed to assess the financial sustainability of the municipality by ratio analysis, which will characterize its investment activity and attractiveness.

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G.V. Petruk

Status and Prospects of Development of the Communications Industry in the Kamchatka Region

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Key words and phrases: information; information resources; communication services.

Abstract: This paper provides basic information about the development of information resources and communications industry in the Kamchatka region. The author described the structure of the industry, conducted the analysis of its current state. The main problems of the sector were examined and trends in its development were identified.

O.M. Tsybikdorzhieva

Mutual Influence of Regional Programs and Inter-Regional Integration Processes

Key words and phrases: investment; investment policy in the region; integration cooperation; planning; forecasting; federal programs.

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Abstract: The paper describes the mutual influence of regional programs, forecasting, planning, programming, and inter-regional integration processes.

Architecture and Construction

S.M. Terekhov, V.A. Nemtinov, K.S. Kornilov

Using System Concept for Solving Task of Boiler Room's Engineering

Key words and phrases: information system, boiler room, boilers, pumps, system concept.

Abstract: We consider the method for solving complicated engineering problem using system concept. Author offers the following fragmentation of original problem into a series of simple interconnected tasks. Amount of solutions of each task allows you to get a general solution of designing a boiler room. All tasks are going to optimized, so they are formulated and solving by extremum function, which allows you to get an optimal solution of the original problem.

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