

Biological Sciences

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Change in the Morphology of Small Intestine of Albino Rats Caused by Intake of Sodium Chloride Water

Key words and phrases: water; hypertonic solution of sodium chloride; small intestine; pregnant rats.

Abstract: The authors conducted a comparative study of the influence of drinking water with balanced ionic composition and sodium chloride water on the morphology of small intestine of nonpregnant and pregnant female albino rats. As a result of experimental study it was established that a hypertonic solution of sodium chloride has an effect on the morphology of the wall of the jejunum of nonpregnant and pregnant albino rats. It was revealed that the destructive changes of cells caused by sodium chloride solution are more pronounced in pregnant animals.

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Pedagogy and Psychology

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On Auditing Methodology for University-based Foreign Language Training

Key words and phrases: higher education modernization; language audit; language for specific purposes; quality of university-based foreign language training.

Abstract: The article examines the university-based foreign language for specific purposes (LSP) training within the quality assurance paradigm of higher education; some controversies in the field of university-based LSP training are identified; the current importance of university-based foreign language training audit is underlined, key stages and the relevant activities are outlined.

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E.A. Baranova, N.I. Arsentieva

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On the Formation of Junior Schoolchildren's Social Competence in Integrated Educational Space

Key words and phrases: children with disabilities; junior schoolchildren; social competence; socialization; training in integrated educational space.

Abstract: The paper considers some theoretical approaches to understanding the essence of social competence and focuses on the relevance and possible conditions of its formation in junior schoolchildren in integrated educational space.

page 16-21

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Revitalizing Students' Cognitive Activity at Lectures in Mathematics

Key words and phrases: cognitive activity; lecture in Mathematics; revitalizing.

Abstracts: The paper describes a system of tasks that helps a lecturer to get students involved in cognitive activity at lectures in Mathematics and to enhance this process.

page 22-24

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Developing Professional Competencies in Laboratory Practical Work

Key words and phrases: chemistry of oil and gas; laboratory practical work; professional competence; regulatory instruments.

Abstract: The paper discusses the issues of formation of industrial-technological and experimental research competencies in the formulation of laboratory training in the course «Chemistry of Oil and Gas» for specialist in oil and gas industry. It is proposed to use official regulatory documents in conditions of laboratory practical work.

page 25-29

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Consistency of Motor Action as a Comprehensive Indicator of Competitive Readiness

page 30-33

of Cheerleading Teams

Key words and phrases: cheerleading; competitive composition; consistency of motor actions; team.

Abstract: The paper discusses the features of competitive cheerleading team performances that define a specific structure consistency of motor actions in the sport.

Professional Training

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To the Question of Improving Methodological Culture of University Lecturers

Key words and phrases: methodical competence; methodological components of culture; methodological culture; personal and professional qualities; psychological and pedagogical knowledge; university lecturer.

page 34-37

Abstract: The paper highlights the issues of improving methodological culture of university lecturers: the development of the level of psychological and pedagogical knowledge, a number of personal and professional qualities. Specific features of methodological culture and methodological competence were discussed; the content of methodological culture components was grounded.

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Integrative Developing Approach to Foreign Language Training of University Students as one of the Most Promising Vectors in Education Process

Key words and phrases: foreign language training of students; integrative developing approach; education process; pedagogical environment.

page 38-41

Abstract: The paper is devoted to the essence of integrative developing approach to foreign language training of university students as well as the opportunity of its practical application that can lead to enhance foreign language skills of graduates. The authors describe pedagogical conditions to help the advancement of education efficiency.

History, Philosophy and Sociology

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Transformation of the Concept of Catharsis: from Aristotle to Antonin Arto

Key words and phrases: avant-garde theater; catharsis; comic; cruelty; drama; mimesis; tragic.

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Abstract: The paper analyzes the process of transformation of the category of catharsis which determines the uniqueness of the European avant-garde dramatic theater. In the course of a comparative analysis of the redefined category of tragic catharsis, introduced by Aristotle and the notion of catharsis, reinterpreted by avant-garde in tragicomic feature, the author traces the origin and meaning of this transformation, identifies structural changes in its drama, conflict, and the concepts of tragic and comic.

E.V. Rodionov

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Dynamics of Consumer Cooperatives in the Second half of the 1980s (Case Study of BASSR)

Key words and phrases: cooperative; cooperation; consumer cooperative society.

page 47-50

Abstract: This paper discusses the process of development and modernization of consumer cooperatives in the Soviet Union in the second half of the 1980s, using the materials of Bashkir ASSR.

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Junior Officers of the World War I in the Rear: Disciplinary Offenses and Social Conflicts (Case Studies of Kazan and Simbirsk Provinces)

Key words and phrases: junior officers; Kazan Governorate; warrant officers; Simbirsk province; World War I.

Abstract: The paper describes social life in the Russian Empire during World War I. The subject of the study is social collisions involving junior officers in Kazan and Simbirsk provinces. The purpose of the paper is to define the status of junior officers in the rear, motives and results of their social conflicts. The paper focuses on the period from 1914 to February 1917 and is based on the sources of the National Archive of the Republic of Tatarstan (NART) and Ulyanovsk state archive (USA). The author shows the common types of disciplinary offenses and social conflicts of junior officers in the rear; special attention is paid to warrant officers as the main participants of these conflicts. Also, the author demonstrates the factors which contributed to social conflicts of junior officers (alcohol consumption despite the prohibition, degradation of military officers' education and receiving an officer rank by people with low social origin). The author gives categories of the rear people, who suffered in conflicts with junior officers. In the conclusion, the author reflects on the authority's efforts to stop these disciplinary offenses and decline in the reputation of junior officers.

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Philology

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The Variety and Role of Interrogative Structures in the Patriarch's Orthodox Nativity Epistle (to the question of internal dialogue of ecclesiastical and religious discourse)

Key words and phrases: dialogic tools; dialogicity; discourse analysis; ecclesiastical and religious discourse; genre of message; gipofora; interrogative structures; rhetorical questions.

Abstract: The paper discusses the variety and the role of interrogative structures expressing dialogicity as a category in the religious discourse. As a material for the study were chosen the texts of Patriarch's Orthodox Nativity Epistle (1993-2014).

page 56-60

D.E. Perekopny

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Methodology for Creating E-Commerce Thesaurus

Key words and phrases: e-commerce; EC; information retrieval systems; IRS; linguistics; thesaurus.

Abstract: 'Thesaurus monolingual information retrieval' GOST 7.25-2001 establishes rules for the development, structure, composition, and presentation of information thesauri, focused on the use of the Russian language and vocabulary developed within automated information systems and networks of scientific and technical information. The technology of creation of the thesaurus is developed for each subject area. EC Thesaurus can be used for the automatic processing of texts when indexing documents, automatic categorization of complex hierarchical rubrics, and automatic expansion of natural-language queries. This opens up broad horizons for the use of EC thesaurus in information retrieval systems (IRS). The proposed of creation of EC thesaurus using the information and software of the Internet resource permits the creation of EC thesaurus over short period, at low cost and keep it up to date.

page 61-64

E.A. Tshuvil'skaya

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Dialogue of Hyper- and Intertextuality in Literary Hypertext Narrative

Key words and phrases: 'dialogism'; hypertext narrative; hypertextuality; intertextuality; postmodernism; prototype narrative.

Abstract: The paper presents the concepts of hypertextuality and intertextuality with regard to the literary hypertext narrative and considers the terms of the hypertext and hypertext narrative. The author determines and analyses functions and forms of the hypertext and intertext elements through the literary Russian and German hypertext narratives and interrelates them.

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Electronics, Measuring Equipment, Radiotechnics and Communication

G.A. Pyukke, D.S. Strelnikov

page 69-79

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Diagnostics of the Systems Modeled by Electrical Circuits using White Noise

Key words and phrases: diagnostic and adjusting model; Gaussian noise; method of exclusion of varied parameter; probability; statistical error; stochastic model.

Abstract: The authors studied the issues related to determining the probability characteristics of the sources of test signals, and chose Gaussian noise as one of those, and determined the probability characteristics of the currents and voltages occurring in the chain under the influence of these disturbances. Application of white noise eliminates the calculation of phase relations under the influence of the test signal on the inertia of the chain. This simplifies the calculation and enables to reduce it to RMS values.

The main statistical characteristics of the test signal were calculated by recording a sample a sample realization of a stationary random process of finite duration. Measuring of characteristics was reduced to the processing of these processes implementations. This made it possible to exclude the analysis of the phase relations performed using deterministic sinusoidal signals from consideration, and use white noise as a test signal for diagnostics of electrical circuits containing reactive elements. The resulting values of the equivalent resistances were used to construct diagnostic model, which ensured compliance of the results of theoretical calculations with the results of practical measurements.

Management, Computer Engineering and Information Science

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Methodical Aspects of Automated Search for Answers to Questions

Key words and phrases: question; system START; problem-based automatic text summarization; answer; TextAnalyst; ternary expression. page 80-85

Abstract: The paper presents methodical aspects of functioning of question-answering system and provides comparative analysis of tools for automated search for answers to questions.

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Algorithm for Identification of Constantly Operating Mathematical Models of Quality Control over University Students' Knowledge

Key words and phrases: identification algorithm; quality of student knowledge; group method of data handling page 86-90

Abstract: The authors developed an upgraded combinatorial algorithm of group method of data handling (**GMDH**) to identify the target functions of students' knowledge quality (**SKQ**), which implements a rational calculation process with the estimation procedure of independent parameters and order of external criteria application for the optimal models selection.

S.V. Shibanov, A.I. Fishbein

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Universal Interface of Interaction of Software Components to Control Data Reliability

Key words and phrases: software architecture; business rules; information systems; data reliability control; universal programming interface of data interchange.

Abstract: The problem of constructing software for data reliability control that uses business rules is considered. The scheme of functioning of software for data reliability control is described. The universal programming interface of data interchange between software components designed to work with business rules is offered. Also, data interchange interface between executable code of business rules and components of automated information system is offered. Examples of application of the developed interfaces are given. page 91-100

Economic Sciences

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Web-Analysis for Internet Project: Key Performance Indicators as a Basis for Measurements

page 101-108

Key words and phrases: web analysis; key performance indicators; internet site conversion; efficiency improvement.

Abstract: The problem of web sites quantitative and quality indicators measurement is quite an urgent one. Analytical tools for Internet projects analysis provide a large amount of data and it could be used to make management decisions. Also, it offers attractive opportunities for business growth and development. This paper attempts to consolidate available information and suggest the author's classification for key metrics and ways to implement them for different kinds of Internet projects. Also, there is a number of activities proposed for key performance indicators correction using available web analysis tools. The result is a key performance indicators system and those indicator's descriptions for all kinds of Internet projects. It can be applied in Internet marketing and Internet projects web analysis area to measure current progress and correct business strategy.

E.A. Kychkina, A.A. Kychkin

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Financial Instruments and their Interrelation with Investment and Innovation Process

Key words and phrases: financial instruments; investment; innovation; securities; innovation and investment; financing; innovation; structural-logical model; investment market, Internet-trading.

page 109-112

Abstract: This paper explains the relevance of financial instruments and their interrelation with the investment process. The authors give a detailed analysis of the most famous works of a number of authors from the Irkutsk region, involved in adaptation and security analysis.

O.A. Popova, V.E. Saktoev, N.A. Malinovskaya

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Theoretical Aspects of the System for Monitoring the Socio-Economic System of the Region

Key words and phrases: monitoring; socio-economic system of the region; goals; objectives; monitoring features; stages of monitoring process.

Abstract: The paper describes some aspects of the system to monitor the socio-economic system of the region. The focus is on the notion of monitoring, classification of types of monitoring, identifying goals, targets, monitoring features, stages of the monitoring process. The authors studied the experience of the regions of the Russian Federation in organizing and operating the monitoring system of socioeconomic development of the region. It is proposed to include as major factors affecting the efficiency of the process of monitoring the socio-economic development of the region to allocate: possibilities of quality monitoring process; needs of the main users of the information; legislative requirements for the formation of a system of indicators and reporting; the competence of monitoring entities; the complexity of the processes.

page 113-120

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Main Directions of Redevelopment Programs of Adjacent Territories

Key words and phrases: regional economy; spatial organization of economic systems; local economic system.

page 121-125

Abstract: The paper describes the peculiarities of the development of transformational processes in the regional economy. Theory of redevelopment allows solving key problems of modernization of developed territories.

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Siberian State Aerospace University named after academician M.F. Reshetnev, Krasnoyarsk

Innovation Infrastructure: Issues and Options

Key words and phrases: innovation process; innovation infrastructure; operating characteristics; development institutes.

page 126-129

Abstract: The paper deals with the current state of the Russian innovation infrastructure and its key elements. The features of their work and problems of their further development were addressed.

I.S. Khorev

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page 130-133

Development of Vertically Integrated Systems in the Regional Market of Meat

Key words and phrases: grants to agriculture; regional meat market; vertical integration.

Abstract: The need for coordinated actions between integrated systems and the states aimed at the achievement of the maximum results in production of domestic meat through the creation of a range and development of the agricultural enterprises on its basis. The range has to satisfy as many needs of the population for meat and meat products, as possible, and to promote the development of local agricultural enterprises making meat with high consumer properties.

Political Science

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Regional Identity: the Concept, Content and Structure

Key words and phrases: identity; crisis of identity; positive/negative identity; regional identity; region.

Abstract: Regional identity in a sense is an expression of the perception of national identity, national political processes. In practice, it can be expressed in a special electoral behavior or folding specific regional party-political regimes. This paper analyzes the concept of «regional identity» and expresses a different scientific point of view.

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