

Pedagogical Sciences

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The Model of Formation of University Teachers' Readiness for Project Work Using Information Technologies

Keywords and phrases: pedagogy; information technologies; model; project work; readiness, formation of readiness.

page 7-12

Abstract: The article describes a model of formation of readiness of university teachers for project work using information technologies. The didactic principles of its implementation in the professional work of teachers of higher education are revealed, components and levels of formation of the readiness of teachers are defined.

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Some Psychological Characteristics of Individual Groups of Drug Addicted Convicts

Keywords and phrases: convict; drug addiction; desomorphine; penitentiary psychologist; correctional system; psychological characteristics.

page 13-15

Abstract: The article deals with the psychological characteristics of convicts addicted to desomorphine.

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On Improving the Organization of Work of Coaches in Multicultural Teams

Keywords and phrases: multicultural team; teacher; sport; coach; physical education.

page 16-18

Abstract: Russia has been going through intensive formation of multicultural teams in the educational environment. There is a need for special training of professionals working with such groups. Particular attention is drawn to the increasing demands for the training of coaches and teachers. They are expected to conduct sports and fitness lessons, classes and sports events in multicultural teams at high level of quality.

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The Nature and Characteristics of Professionally-Oriented Communication in a Foreign Language

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

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Keywords and phrases: communication; professional communication; professionally-oriented communication in a foreign language.

Abstract: This article clarifies the definition of professionally-oriented communication in a foreign language; the content and structure of the given concept have been explained.

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The Use of Quality Management Principles in the Formation of Technical University Students' Readiness for Professional Work

Keywords and phrases: professional adaptation; readiness for professional adaptation; quality management system; competence-based approach.

page 23-26

Abstract: The article deals with the modern requirements of employers to university graduates. The definition of readiness for professional work has been clarified. The main principles of formation of professional adaptation of technical university students in the system of quality management of the enterprise have been defined.

Historical Sciences and Archeology

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Preparing for a Trip in the Bashkir Traditional Culture of Travelling

page 27-29

Keywords and phrases: Bashkir people; road; way; traditional culture of travelling.

Abstract: The article describes the first step of the Bashkir traditional culture of travelling where a man goes travelling and crosses his own borders of home locus.

K.K. Afanesyan, T.A. Shubzukhova

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The Content of Daily Routine of Public Charity and Philanthropy in the Stavropol Region in Conditions of Modernization Development (1870s–1917)

Keywords and phrases: charity; civic associations; city public administration; modernization process; public charity; daily routine; rationalization of practices; socially insufficient population; traditional consciousness.

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Abstract: The article analyzes the assistance provided to socially insufficient population: the traditional frame of mind and rationalization of practices. The degree of influence of modernization processes in Russia on the content of daily routine of public charity and philanthropy in the Stavropol region has been revealed. The main part of the study is the analysis of citizens' associations, involved in the public assistance to the socially insufficient population: the Stavropol temporary charity committee of allowances to the victims of the 1891 crop failure; the Stavropol Society of assistance to the poor; the Society on promotion of education and child protection; the Stavropol Society "Patronage".

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Unemployment in the USSR in the 1920s: Some Aspects of the Problem (Case Study of North Ossetia)

page 33-36

Keywords and phrases: unemployment; industry; exchange.

Abstract: In this paper we study the causes and ways to overcome unemployment in one of the regions of Russia. The archival material was used for the first time in the scientific research to reveal the regional specificity of this social phenomenon and to show the role of the state in solving the problem.

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The Sources of Replenishment of Merchants at the End of 18th – the First Half of the 19th Centuries

Keywords and phrases: Russian merchants; social heterogeneity; transition of peasants to the city; signing up in guilds.

page 37-42

Abstract: Using the archival materials of the Vladimir province the authors analyzed the process of replenishment of the merchants at the expense of other groups of the population. It was shown that the Russian legislation gave opportunity to people of different "states" to register in guilds that led to "transfer" from one social group to another and made merchants an unstable social group.

D.S. Kozlov

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Political Extremism: Conceptual and Essential Aspects of the Phenomenon Definition

Keywords and phrases: identity crisis; political ideology; political extremism; radicalism; terrorism; values; extremism.

page 43-48

Abstract: In the article the author systematizes versatile definitions of political extremism which are used by researchers in the modern domestic and world literature. The author finds it relevant owing to its unclear definition in modern scientific discourse and its ambiguity.

A.V. Salnikov

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On the Ways of Spreading the Golden Horde and Central Asian Armament among the Peoples of the North Caucasus in the 8th–15th centuries

Keywords and phrases: Golden Horde; Genghis Khan; weapons; trophies; Eurasia; North Caucasus.

Abstract: It is well known that in 1222, the year before the famous battle on the river Kalka, the Mongols for the first time appeared in the North Caucasus. Having divided the Alans and the Cumans, the Mongols defeated them one by one and went in the direction the river Kalka. According to many researchers, this did not affect the main part of the North Caucasus and did not last very long, despite all the drama of the situation. But after the departure of Genghis Khan, the first samples of their arms began to spread in the North Caucasus, and in the following decades, became widely popular among the local peoples.

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Machine Building and Engineering

A.A. Dronov

Military Training and Research Center of Military Aviation “Military Aviation Academy named after Professor N.E. Zhukovsky and Yu.A. Gagarin”, Voronezh

Human Factor and Safety of Flights

Keywords and phrases: aviation system; information flow; structural components.

Abstract: The paper explores the possibility of specialists of modern aviation system in ensuring safety of flights.

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Information Science, Computer Engineering and Management

S.V. Efimov, M.S. Sukhodoev, V.V. Kurgankin

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Transfer Functions Design Based on Predefined Direct Quality Indicators of Transient Processes

Keywords and phrases: control time; overshoot; pole; transfer function; transient process; quality indicators; zero.

Abstract: This article describes the transfer function synthesis techniques for controllers to reach the pre-defined direct quality indicators. An example of obtaining the described functions is given using various techniques. The design peculiarities are represented.

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M.V. Skorospeshkin

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Pseudo-Linear PID Controller

Keywords and phrases: quality control; non-stationary object of control; pseudo-linear PID controller.

Abstract: The author demonstrated the possibility of creation of a pseudo-linear PID-controller on the basis of classical proportional-integral-differential controller, added with a pseudo-linear link with an amplitude suppression and pseudo-linear phase-advance link. It is established that the application of such a controller can significantly improve the quality of transient processes in the systems of automatic control of non-stationary objects. It is concluded that such systems should be used in the regulation of technological parameters of non-stationary objects, when the parameters of the control object are changed in a wide range.

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M.S. Sukhodoev, I.I. Savenko, I.P. Skirnevsky, S.G. Tsapko

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Numerical Optimization Method of Spacecraft Antenna Retargeting Point Calculations

Keywords and phrases: numerical optimization methods; antenna; stepper motor; non-linear functions.

Abstract: This article describes a numerical method that determines the position of motorized

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onboard antennas of the spacecraft using telemetry values. Also, the devices allowing for spacecraft antenna retargeting are described in detail. The results of testing of the described algorithm are given in the conclusion of the article.

I.A. Khasanshin, A.A. Gorshkova

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Feasibility Study of the Decision-Making Model of a Sole Agent for the Telecommunications Company

Keywords and phrases: reflexive control; socio-economic system; sustainable development.

Abstract: The article investigates the decision-making model of a sole agent for the telecommunications company.

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A.G. Chvertkin

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Adaptation of Forecasting Techniques of Flooded Areas for the Use in Geo-Information System

Keywords and phrases: adaptation techniques; flooded area; forecasting; geo-information system; graphical results.

Abstract: The article considers the main principles of forecasting techniques to bring the course and consequences of flooding to a form suitable for the use in the mathematical formalism of geo-information systems. Attention is drawn to the possibility of application of graphical results of empirical research in geo-information systems, with no loss of accuracy of the calculations.

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Economic Sciences

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The Influence of POS-Materials on Increase in Sales

Keywords and phrases: POS-materials; water dispensers; shelf-talkers; stickers; mobile rack; light boxes; plugs.

Abstract: The article analyzes POS materials contributing to the product promotion. Their effectiveness and cost optimization are examined. Five functional areas of the “dumb sellers” are proposed.

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A.A. Jastin

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Current State and Prospects of Small and Medium-Sized Enterprises in the Republic of Cameroon

Keywords and phrases: small and medium-sized enterprise (SMEs), SME development in Cameroon, micro, small and medium sized enterprises, entrepreneurship promotion.

Abstract: Small and medium sized enterprises despite their huge presence in all economies have been identified to have similar challenges with respect to their development. Limited access to finance, lack of managerial skills, and the absence of an entrepreneurial class have been a call for concern. Policy response has been financial and technical assistance as instruments with the employment generation as the main objective. This has been the case in Cameroon with 81 % of enterprises falling in the micro category despite significant state support to promote the sector since 2005. State support came without orientation and focus considering all startups to be good for support without an attempt to look at sectors that can be more productive to the economy.

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M.E. Kiseleva

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The Geography of Poverty in the USA: the Specifics of Official and Alternative Methods of Poverty Thresholds Measurements

Keywords and phrases: concept of absolute poverty; poverty thresholds; money income;

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poverty rate; regional differences in cost of living; states of the USA.

Abstract: The article deals with the methods of poverty thresholds measurement in the USA, a general description of official poverty measurement method is given; its main disadvantages were found. The opportunity of alternative measurement method given more parameters and characteristics has been considered. The two methods – official and alternative – were investigated. The 3 groups of states were allocated using the differences in poverty rates index calculated by both methods.

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Allocation of Industry Cycles in the Forest Sector of Russia Using the Principle of Innovation Exhaustion

Keywords and phrases: forest sector; industry cycle; innovation; exhaustion of innovation.

Abstract: In the article the author explores the relationship between the industry development cycle and the level of innovation development. The author proposes an innovative development cycle of the industry, which is formed on the principle of exhaustion of innovation. The author proposes a map of active innovation for sawmills and pulp and paper industry and comes to the conclusion that the forest sector not only in Russia but throughout the world needs breakthrough technologies, as currently it is undergoing the phase of innovation exhaustion. Current innovations in the industry are created mainly by diffusion from other sectors of the industry. Poor use in the Russian forest sector of the world's best available technology exacerbates its stagnation.

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S.V. Ogneva, E.V. Kharitonova

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Quality Assurance and Safety of Tourist Products through Mutual Partnership

Keywords and phrases: quality; tourism product; tourism services; mutual partnership agreement.

Abstract: The article considers the issues of quality assurance and safety of integrated tourist services and tourist products through the control over service providers. Mutual partnership of suppliers and tour operators is seen as a prerequisite for ensuring the quality of tourist products.

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Features of Demand in the Industrial Market and its Management

Keywords and phrases: demand; industrial marketing; industrial market; industrial marketing.

Abstract: Since the industrial marketing is seen as collaboration of different industries and sectors related to goods and services purchased for business purposes, it has certain characteristics different from the consumer market.

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Biotechnology and Medicine

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The Influence of Angiotensin Converting Enzyme Inhibitors of Different Generations on Microcirculation of the Patients with Diabetic Heart

Keywords and phrases: coronary heart disease; microcirculation; angiotensin converting enzyme inhibitor; type 2 diabetes.

Abstract: We studied the state of microcirculation with the morphological assessment of microvascular bed and the effectiveness of therapeutic effect of angiotensin converting enzyme inhibitors in a daily dose of 5 mg for patients with coronary heart disease, stable angina III FK in combination with type 2 diabetes. The prolonged application of lisinopril caused the positive dynamics of microcirculatory disturbances, especially its intravascular link with increase in the blood rate flow and a decrease in aggregation of red blood cells.

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Architecture and Construction

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The Probleme of Calculating Frameless Arch Building Made of Double Corrugated Steel Sheet

Keywords and phrases: frameless arch building; light-gauge steel structures.

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Abstract: The construction of frameless arch buildings is a promising direction in construction. This type of buildings belongs to the class of light-gauge steel structures. Foreign manufacturers of this type of buildings include the companies BEHLEN and HONCO; in the domestic market the company "Eksergia" is well-known.

Linguistics

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Some Aspects of Wang Chong's Literary Theory (First Century A.D.)

Keywords and phrases: Chinese literature; Chinese poetics; Discourses Weighed; Lunheng; the Balanced Inquiries Wang Chong

Abstract: The paper centers on the main problems of Wang Chong's literary theory (I A.D.), which can be found in chapters from "Discourses Weighed" (Lunching). The analysis is based on the translation of several chapters from Wang Chong's work, which was made by the author of this article.

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Yu.I. Sikaliuk

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Types of Inofmation in Originals and Self-Translations of Ivan Franko

Keywords and phrases: information; original; self-translation.

Abstract: The article deals with the types of information in Ivan Franko's originals and the peculiarities of its reproduction in his self-translations.

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Journalistic Activities of V.V. Dvortsov and F.M. Dostoevsky in the Context of Aspirations to Supreme Beauty of a Writer and a Citizen: the Concept of "Russianness Preservation"

Keywords and phrases: Vasily Dvortsov; Fyodor Dostoevsky; concept of «Russianness preservation»; union of the peoples of Russia; spiritual beauty; modern culture.

Abstract: This article is devoted to philosophical reflection on citizenship of the writer of modern Russian literature V.V. Dvortsov by the example of his journalistic work. V.V. Dvortsov was sure that a true artist must feel his people and be able to reflect their needs and ideals in his work. Thus, the desire of the Russian people to find their Faith and timely reflection of these ideals in the literature of the writers allowed the author to conclude that Russian literature had a great future, because it lived with the people. The Russian literature was a reflection of the most important events of contemporary Russian life. The concept under study "Russianness preservation" became a standpoint in journalism of F.M. Dostoevsky and V.V. Dvortsov. In their opinion, at the heart of spirituality of the Russian people there was an invisible force, which could unite and reconcile many people and their traditions. It is this quality of the Russian people that makes them different from the others and at the same time requires its further development in the heart of the modern generation. The objective of this article is to discuss the concept of "Russianness preservation" in V.V. Dvortsov's essays and draw imaginative parallels with the literary works of F.M. Dostoevsky in the context of the aspirations of writers to the supreme beauty in the orthodox sense of the word.

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Chemical Engineering

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The Influence of Phytosterols on the Sensor Stability of Beer

Keywords and phrases: beer; phytosterols; trans-2-nonenal; beer taste, phytosterols control.

Abstract: Beer is a movable colloidal system that is formed during the multistep process. Undesirable processes can occur during the production process due to the uneven quality of the raw materials used, as well as technological halting, associated with the occurrence of the problem of beer instability during storage and sales. Some of the compounds responsible for the formation of undesirable taste of beer are phytosterols – sterols of plant origin that structurally possess high molecular structure, they are polyunsaturated, so they undergo oxidation reaction. It is possible to control the processes of transformation of the lipid fraction – phytosterols, and to predict a component of the sensor stability of beer.

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A.A. Sikachina

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The Construction of Statistical Dependence of the Type “Structure-Property” between Biocidal Activity of Complexones and the Structure of their Molecules

Keywords and phrases: distribution number; complexones; quatochemical descriptors; STATISTICA 7; “structure-property” dependence.

Abstract: The paper covers one of the aspects of a problem of dependence “structure-property”, namely, the Nernst-Shilov distribution coefficient for a series of molecules of complexones on the sizes of quatochemical descriptors of electronic structure.

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