

Pedagogical Sciences

A.Z. Ibatova, L.N. Zabrodina, L.V. Vdovichenko

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

Principles of Developing Professional Speech Culture of Future Specialists

Keywords: professional speech culture; system of formation of professional speech culture; principles of formation of professional speech.

page 7-9

Abstract: This article discusses general and specific principles of the system of developing professional speech culture of future specialists, clarifies their structure and content.

A.I. Kozhederov

Ugra State University, Khanty-Mansiysk

Developing Professional Readiness of Future Engineers for Work in Corporate Maintenance System

Keywords: road transport; professional readiness; service station; corporate maintenance.

page 10-13

Abstract: The article explores the urgency of the problem of developing professional readiness of future engineers for work in the corporate maintenance system. The main concepts have been discussed; and the goals for further research in this area have been set.

L.E. Tarasova

Chernyshevsky Saratov State University, Saratov

Well-Being through the Eyes of Ethnic Groups in the Volga Region

Keywords: happiness; subjective well-being; national character; ethnic identity; ethnicity.

page 14-16

Abstract: The article attempts to compare ideas about well-being objectified in small forms of folklore of ethnic groups of the Volga region. It was found that the inner world of the ethnic cultures of the Volga region is based on the centuries-old relationship, image perception of the world, connection with nature and to a large extent the age-old Russian values.

O.A. Tolmacheva

Dashkova Moscow Humanitarian University, Moscow

Psychological Features of Adulthood. The Influence of Professional Identity on Coping with Midlife Crisis

Keywords: midlife crisis; personal maturity; professional identity; search for meaning of life.

page 17-19

Abstract: Understanding of self-identity in adulthood can be deceptive. An individual begins to feel the need for new personal values. Search for the meaning of life in this period forms the existential vacuum and can result in neurosis. The author explores the ways of solving this problem. Understanding of your own abilities and capabilities, and the right career path can help to solve the problem. This article discusses psychological characteristics of middle age and ways of coping with the midlife crisis from a perspective of self-identity and professional fulfillment.

K.R. Khachaturova, G.N. Stepanova

Public School # 129, St. Petersburg

Formation of Universal Educational Skills in Natural Science Classes as a Means of Scientific Knowledge Integration

Keywords: information approach; natural science subjects; universal educational skills.

page 20-24

Abstract: This article discusses the development of creative skills of pupils in natural science classes, using conventional training as a means of integration and the information approach.

O.N. Chernova

Witte Moscow State University, Moscow

Problems of Teachers' Psychological Competence Development

Keywords: modernization of education; quality of education; teacher; psychological competence of teachers; teacher education.

page 25-30

Abstract: The aim of paper is to explore the theoretical understanding of the essential and dynamic features of teachers' psychological competence. The overview and theoretical analysis

of modern approaches to understanding of psychological competence are represented in the research. The author analyses and represents the results of contemporary studies of the problem of psychological competence. The method which is chosen for this overview is theoretical analysis. The author concludes that psychological competence is an integral psychological concept which provides for high professional and psychological level of pedagogical activity.

Machine Building and Engineering

I.A. Proshin, R.D. Proshina, M.V. Shepelev
Penza State Technological University, Penza

Mathematical Models of Indicators and Component Portrait in Evaluation of Harmonic Composition of Voltage

page 31-35

Keywords: harmonic composition; component portrait; quality indicators; electric energy.

Abstract: The paper considers the application of the models of indicators and component portrait in the evaluation of harmonic composition of voltage.

I.R. Shegelman, A.S. Vasilyev, P.O. Shchukin
Petrozavodsk State University, Petrozavodsk

Gate-Type Shut-Off Valves for Pipelines

page 36-38

Keywords: valve; pipeline; gate-type shut-off valves.

Abstract: The paper describes the design of gate-type shut-off valves with a high degree of tightness in relation to the external environment; these valves are used in nuclear industry, thermal power engineering and oil and gas industry.

Information Science, Computer Engineering and Management

D.B. Vladimirova
Perm National Research Polytechnic University, Perm

Fractal Index in the Study of Discrete Time Series Determinateness

page 39-44

Keywords: fractal; Hurst index; fractal dimension; fractal index.

Abstract: Using fractal analysis methods the author studied financial time series (2000–2015) of the currency pairs. It is shown that the best indicator of local changes is fractal index.

L.M. Kultysheva, D.E. Kharitonova
Perm National Research Polytechnic University, Perm

Construction of Simple Imitation Model for Non-Agricultural Economy of the USA Using the 1947–1968 Data

page 45-48

Keywords: discrete mathematical model; problem of identification; imitation model; non-agricultural economy of the USA.

Abstract: The paper considers the problem of constructing a simple discrete simulation model for non-agricultural economy of the United States, using the data of 1947–1968. This problem is reduced to the problem of identification of the chosen model by measuring the input and output of the object.

A.S. Polenov
Perm National Research Polytechnic University, Perm

The Architecture of Hybrid Computer DNA-Subsystem Based on Extended Sticker Model of DNA-Computation

page 49-51

Keywords: biocomputer; DNA-computations; DNA-computer; DNA-logic; sticker model.

Abstract: The paper exposes the architecture of DNA-subsystem of hybrid computer and describes the principles of operation of the subsystem units.

G.A. Pushkarev, E.Yu. Vorobyeva

Perm National Research Polytechnic University, Perm

Negativity of the Green's Function of a Boundary Value Problem for Functional Differential Equation

Keywords: bounded linear operator; functional-differential equation; boundary value problem; method of monotone operators.

$$(\Delta x)(t) = f\left(t, \int_a^b x(s) d_s R_0(t, s)\right), \quad t \in [a, b], \quad x(a) = \alpha, \quad x(b) = \beta.$$

Abstract: The criterion for the existence of the solution of a nonlinear boundary value problem

has been found.

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Economic Sciences

V.S. Berchenko

Plekhanov Russian University of Economics, Moscow

Global Management Consulting Market Trends

Keywords: consulting services trends; management consulting services; strategic consulting.

Abstract: In the article, the author sets the task to identify and consider the trends that will affect the global management consulting market in the short and medium terms. The author analyzed characteristic features of the structure of the management consulting market and focused on the possible impact of the identified trends on the development of the market as a whole, and on the development of management consulting segments. Using the conducted research the author makes a possible forecast of the market development. It is shown that management consulting services have a strong impact on many industries, due to the fact that consultants tend to offer and develop business strategy for the world's largest transnational and multinational corporations. Therefore, it is particularly important to understand how management consulting services will develop in the foreseeable future, as it will allow predicting the development of the global market of goods and services in general.

page 57-61

E.Ts. Garmaeva, Zh.D. Gomboeva, I.A. Sharaldaeva

East Siberian State University of Technology and Management, Ulan-Ude

Socio-Economic Development of Municipalities

Keywords: municipality; program; socio-economic system; territory; management.

Abstract: The paper explores the questions related to targeted programs of social and economic development of municipalities, as well as peculiarities of municipalities.

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A.R. Davydov, Yu.S. Tregubova

Perm National Research Polytechnic University, Perm

Multidimensional Statistical Analysis of Sustainable Development of the Russian Federation Regions

Keywords: regional economy; socio-economic development; sustainability of development; statistical methods; factor analysis.

Abstract: This article is devoted to the comparative analysis of the economic development of the Russian Federation regions; using the factor analysis, the authors studied the sustainability of the regional development.

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V.D. Zharikov, E.S. Zhangalieva

Tambov State Technical University, Tambov

The Implementation of the Strategy for Socio-Economic Development of Municipalities

Keywords: strategy; socio-economic development; municipality; mechanism of strategy implementation.

Abstract: The paper describes the strategy for the development of municipalities. The developed strategy should contain a development philosophy consisting in the mission of the municipality strategic objectives, including social and economic tools of the strategy

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implementation; these are a set of legal, organizational and economic measures aimed at developing efficient economy, with long-term potential for growth, ability to ensure continuous improvement of the quality of life municipality residents. The basic principle is based on the mechanism of the strategy implementation, namely it is the principle of "balance of interests" of organizations involved in the implementation of the strategy and located in the territory of the municipality, and its residents. The funding of the strategy is based on the budgets of all levels, depending on the project, as well as extra budgetary funds.

L.B. Kalmykova

East Siberian State University of Technology and Management, Ulan-Ude

Processes and Factors of Performance and Development of Regions Using Environmental Regulation of Economic Activity

Keywords: socio-economic development; innovative changes; ecological and economic processes; volatility.

Abstract: The article describes the factors and processes of global, national and regional issues affecting socio-economic development. It is shown that political, economic, social, environmental and other innovative changes amend the existing development trends. Particular attention should be paid to the ecological and economic processes requiring the construction of a new economic system that can be adaptable to innovation. The author stresses that in the regions with environmental regulation of economic activity, in terms of volatility of ecological and economic processes it is a topical issue of investment attractiveness, and also the problem of creating and developing social appeal of the region.

page 74-77

M.A. Sevodin

Perm National Research Polytechnic University, Perm

Some Estimates of Price Equilibrium in Share Economy

Keywords: share economy; price equilibrium; distinctive roots; one-to-oneness.

Abstract: This article investigates the price equilibrium in share economy. Various approaches to estimating the price equilibrium have been proposed. In general, the possibility of obtaining estimates using one-to-oneness conditions has been described. In the particular case, when the number of agents is limited to three, well-known estimates of analytic functions p-valence are used.

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T.A. Osechkina, U.V. Zakirova

Perm National Research Polytechnic University, Perm

Model of Social Influence on Consumer Choice of Deposit Type

Keywords: deposit; consumer behavior; probability; Markov's chains.

Abstract: The paper describes the Voronovitsky model of consumer probabilistic behavior; the model is applied to a deposit choice. The factors defining a choice have been identified.

page 83-86

T.F. Pepelyaeva, V. Yu. Ivankin

Perm National Research Polytechnic University, Perm

Optimal Planning of Company Sales

Keywords: calculation of volume of sales; optimal sales; forecast; Simplex method.

Abstract: The article presents the calculation of the optimum volume of sales of a trading company; the sales forecast for the next quarter in view of the obtained solution has been made. The problem was solved by the Simplex method.

page 87-90

A.V. Filippov

Griboyedov Institute of International Law and Economics, Moscow

The Third Industrial Revolution and Its Importance for the Modern Economy

Keywords: scientific and technical progress; green energy; savings; economy; pillars of economy; thermal energy; biomass; hydropower; wind resources.

Abstract: The article is devoted to the third industrial revolution and its importance for the modern economy. The analysis of the effect of scientific and technological development has been made; a combination of Internet communications and renewable energy sources has been analyzed. The essential "pillars" for the development of "green energy" in the Russian Federation have been identified. The author described the importance of integration and harmonization of each of the pillars at every level and at every stage of development. The

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author described the reasons why the energy network should be digital and intelligent; its significance for the Russian Federation has been indicated.

B.B. Sharaldaev, N.N. Bulatova, L.R. Slepneva

East Siberian State University of Technology and Management, Ulan-Ude

Assessment of Investment Projects Innovativeness for Municipality Development

Keywords: assessment; innovation; investment; municipality; territorial economic system; indicators; project.

page 94-97

Abstract: The paper explores the questions of assessing innovativeness of municipal investment projects for the development of territorial and economic system of municipality. The criteria for assessing innovativeness, reducing risk and increasing reliability of innovation assessment have been defined.

Historical Sciences and Archeology

P.B. Bogdanova

Russian State Humanitarian University, Moscow

Anatoly Efros' Directorial Pursuit during the "Thaw" Period

Keywords: "thaw"; Anatoly Efros; director; neo-realism.

page 98-102

Abstract: The initial phase of the "thaw" was characterized by an interest in neo-realism, artists wanted to come closer to reality and reflect it. This was associated with the pursuit of truth. Social, psychological, aesthetic truth lay in the foundation of the theater pursuit. The article deals with the examples of Anatoly Efros directorial pursuit during the "thaw" period.

I.I. Daminev, D.P. Samorodov

Branch of Bashkir State University, Sterlitamak (Bashkortostan)

The Development of Pre-Cast Large-Panel Housing Construction in Bashkir Autonomous Soviet Socialist Republic during Mass Housing Construction (1965–1985)

Keywords: Gosstroy; housing construction; housing; industrialization; pre-cast large-panel construction; regulation; reinforced concrete structures; Council of Ministers; model projects; trust; Central Committee of the CPSU.

page 103-108

Abstract: The article gives a brief analysis of the development of pre-cast large-panel construction in Bashkir Autonomous Soviet Socialist Republic during mass housing construction (1965–1985). Using archive documents, the authors briefly analyze the process of construction of inexpensive social housing by the industrial method in order to solve the housing problem in the country. The article describes the scale of large-panel construction in the cities of the country, the problems and difficulties that accompanied the construction industry, and the role of the Bashkir Regional Party Committee in solving the housing problem.

D.V. Rakhinsky

Siberian Federal University, Krasnoyarsk

Information as a Weapon of Globalization

Keywords: information basis; narrative; information society; information space; information technology; information resources.

page 109-111

Abstract: This article examines the role of information resources to form the modern global world order. With the help of modern information technology the conditions for the division of the world into subjects and objects of globalization have been created. This situation allows for the simulation of certain social relations both within the country and at the level of international relations.

Ch.V. Tigiev

Khetagurov North Ossetia State University, Vladikavkaz

The Activities of the Tersk Region Residents in Assisting Wounded and Sick Soldiers during the First World War

Keywords: war; wounded; charity.

page 112-115

Abstract: For the first time in the regional literature the article discusses various aspects of social assistance to wounded and sick soldiers and officers in a medical institution of the Tersk

region during the First World War. The analysis of new archival documents allowed analyzing the forms of participation of the city residents in helping the needy military men and their families.

Biotechnology and Medicine

N.N. Klimova, V.A. Stepanov, T.N. Klimova

Volgograd State Medical University, the Russian Federation Ministry of Health, Volgograd

Rationale for Masticatory Muscles Deprogramming When Manufacturing Sports Mouthguards

Keywords: vacuum-molding method; deprogramming of masticatory muscles; sports mouthguards.

page 116-119

Abstract: The increased activity of young people in their spare time, and the growing popularity of new sports have led to an increase in cases of teeth injuries.

The present study shows the optimal availability of vacuum molding method for sports mouthguards, and the necessity of masticatory muscles deprogramming to increase the protective properties of intraoral devices.

Legal Science

L.M. Fedina

Volgograd Academy of the RF Ministry of Internal Affairs, Volgograd

Amending and Cancelling the Delivery Contract for Governmental Needs. Legal Characteristics and Development Prospects

Keywords: contract amendment; contract cancellation; civil contract.

page 120-125

Abstract: The paper gives a brief description of the legal mechanism of amending and cancelling a civil contract. The author focuses on the main features of amending and cancelling a delivery contract for the government needs, and also predicts the development of legal regulation in this sphere in the near future.