

Biological Sciences

V.M. Klyazhev

The Structure of Annual Shoots in Some Forms of *Thuja occidentalis*

Keywords and phrases: coniferous; *Thuja occidentalis*; *Thuja*; shoot; elementary sprout system.

Abstract: The author studied the features of systems of elementary monorhythmic shoots in *Thuja occidentalis* ‘‘Hoveyi’’, ‘‘Maloniana’’, ‘‘Semperaurea’’. The research showed the differences in the growth of shoots of apical, middle and lower parts of the plant for different forms of *Thuja occidentalis*.

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Biotechnology and Medicine

A.A. Abusuyev, A.Sh. Aselderova, E.Ch. Osmanova

The Comparative Evaluation of Thrombolytic Therapy Efficacy in Patients with Acute Myocardial Infarction

Keywords and phrases: actilyse; acute myocardial infarction; metalyse; streptokinase; thrombolytic therapy.

Abstract: The research assessed the effectiveness of thrombolytic therapy with streptokinase, actilyse and metalyse in-hospital aid to 212 patients with acute myocardial infarction. The analysis of the efficacy was performed according to the start time of thrombolytic therapy. The studies have shown that early thrombolysis (up to 2 hours) is effective in all groups of patients, and the delayed therapy (more than 6 hours) has demonstrated mixed results. The efficacy in metalyse was higher than that of actilyse and streptokinase. So, the determining factor of the re-perfusion is the start of thrombolysis.

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Zh.M. Musurmonkulov, Kh.A. Rasulov, S.I. Yuldashev

The Dependence of Contusion Foci Localization on Traumatizing Force Application

Keywords and phrases: localization of contusion foci; direction of force lines; place of traumatizing force application; path of shock wave.

Abstract: The authors studied and determined the localization of contusion foci from the point of application of traumatizing force. It was found that the localization of contusion foci, i.e. contusion of the brain is characterized by its destruction, has certain regularity, depending on the place of traumatizing force application.

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Pedagogical Sciences

Yu.V. Bovda

Prevention of Terrorist Ideology in Educational Environment of Military Educational Institutions of Russian Internal Troops

Keywords and phrases: pedagogical strategy; prevention of deprivation; counterterrorism ideology; reflection position; value orientations; educational environment; military educational institutions.

Abstract: The paper deals with possibilities of military institution educational environment in the field of preventing terrorism ideology. The author raises the problem of the relationship between the development of education and social conflicts. The author reviews issues of elaboration of pedagogical strategies for counter terrorism ideology.

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S.I. Krokhalava

Postgraduate Research Work as a Factor of Pedagogical Culture Development of Future University Lecturers

Keywords and phrases: scientific research activity; Master’s degree; thesis; practice; internship; field work; stages of work.

Abstract: The paper focuses on the organization of scientific research work related to Master’s

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degree program in ecology and nature management. It determines goals of scientific research, discusses stages of planning, methods of conducting research, and methods of evaluation. The paper provides the structure of a master's thesis and determines the requirements for thesis writing. Also, it identifies the requirements for internship/field work and its content.

M.V. Pats

Science Education and Technological Aspects of University Graduates Training. New Implications

Keywords and phrases: scientific character of education; rationality; university graduate; information society; innovation; interactive technologies.

Abstract: The author describes the ability to create knowledge as the basis of the competitiveness of a university graduate. The author discusses the conditions of using interactive technologies in higher education in the context of modern requirements to the subject of education (future specialist). The paper defines the priorities of development of professionals in the information society.

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A.M. Salogub

Interrelation between Gender and Age Characteristics and Components of Emotional Burnout Syndrome in Law Enforcement Officers

Keywords and phrases: depersonalization; professional burnout; reduction of professional achievements; law enforcement agencies; emotional burnout syndrome; emotional burnout; emotional exhaustion.

Abstract: The paper describes the problem of emotional burnout syndrome in law enforcement officers and interrelation between gender and age characteristics and components of emotional burnout syndrome of the studied group, using various mathematical methods of statistics.

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N.I. Sergeeva, N.A. Aleksandrina

Professional Excellence and Personal and Professional Growth of University Lecturers as a Subject of Pedagogical Research

Keywords and phrases: personal growth; professional excellence; professional competence; self-development; potential of an individual.

Abstract: The Russian education system is currently undergoing changes owing to the change of the principal model of civilization development. The teacher is a central figure of the university for practical implementation of teaching innovation. The successful implementation of innovative methods and technologies in conditions of modernization and reforms, a teacher has to have the necessary level of professional competence, and professionalism.

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A. Shamlikashvili, S.V. Kharitonov

The Expectations of Potential Users Regarding Personal Qualities of a Mediator (Gender Aspects)

Keywords and phrases: dispute resolution; gender; mediation; mediator; personal qualities.

Abstract: The paper discusses the results of research to identify the attitudes of men and women in connection with the alleged situations that require dispute resolution and recourse to a third party - the mediator for resolution. With the help of questionnaires we investigated what personal qualities men and women, potential consumers of mediation services considered most important for a professional assistant, participating in settlement of a dispute under alternative court procedure.

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The study was conducted in accordance with the principles of the research ethics on humans and was carried out anonymously, based on informed consent of the participants.

The sample included potential users of mediation services that are not mediators. 51 people were surveyed.

It was found that most often men and women indicate qualities, relevant to such categories as Competence and awareness, Respect, Professionalism and appropriate education, and Neutrality. The results allow concluding that in the absence of significant preferences for gender and age of a mediator, there are gender differences in expectations of a mediator from the perspective of potential consumers of such services.

Culturology

A.V. Bagro (Ignatyeva)

Involvement of Artillery in the Siege and Storming of the Turkish Fortress Kazikermen in 1695

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Keywords and phrases: artillery; siege of the Kazikermen fortress; the first Azov-Dnieper campaign of 1695.

Abstract: This paper analyzes the role of the artillery, which participated in the first Azov- Dnieper campaign in 1695. As a result of this campaign four Turkish fortresses were captured on the Dnieper. The paper introduced new literary sources of the late XVII century.

G.V. Barinova

Disability as a Social Phenomenon in Terms of Causal Determination

Keywords and phrases: phenomenon of disability; disabled; causes; conditions; factors; objective determinants; causal determination.

Abstract: This paper examines the phenomenon of disability from the perspective of philosophical determinism. Subdividing the set of determinants into objective and subjective ones, the author examines disability in the context of causal determination. The author analyzed the three groups of causes that can lead to disability: biological, natural and social, and anthropogenic. The author also highlighted some of the links in the chain of cause-and-effect relationships and factors leading to them, which is the content of causal determination of disability.

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Celibate Priest Ioann (I.P. Bulyko)

Theosis Taught by Archimandrite Cyprian (Kern) (1899–1960)

Keywords and phrases: theosis; salvation; image; involvement; synergy.

Abstract: Archmandrite Cyprian (Kern) is a theologian of Russian emigration. He is famous for his investigation of the anthropology of Saint Gregory Palamas. In his theosis doctrine Archmandrite Cyprian follows the doctrine of Saint Gregory Palamas, teaching how the man can understand God's image to be in nearest unification with God- Trinity. The process of theosis is synergy, i.e. cooperation of God and man. In this process the man's free will is not oppressed, rather, it manifests itself in all its plenitude. The theosis is fulfilled through the participation to the Grace of God that is given in the Church in the sacrament prayers and Christian deeds. In this paper, we describe his doctrine systematically. "The anthropology of Saint Gregory Palamas" was described in the author's doctoral dissertation

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A.Yu. Grachev

Conditions of Developing Protective and Offensive Weapons in Medieval Russia

Keywords and phrases: Medieval Russia; history of warfare; medieval weapon.

Abstract: The paper is devoted to the conditions of formation of medieval Russian protective and offensive weapons. Russian armory tradition was influenced by geological, geographical, economic and social factors. Russian armory tradition is characterized by interweaving of the northwestern (European chivalry) and eastern (nomadic) line of weapons, and their percentages varied depending on the region of country, type of enemy and time period.

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N.A. Degtyareva

Creation and Activity of the South Urals Base Hospitals during World War II (Historiographical Review)

Keywords and phrases: World War II; hospital; historiogeography; patronage; South Urals.

Abstract: The paper describes the fundamental stages, accumulation, systematization, and evaluation of materials on the history of hospital's creation base of the South Ural during the World War II years (1941–1945). A wide range of sources was studied by the author; historiographical analysis was made of available literature topics, including regional sources. The emphasis was made paid on insufficiently studied questions of hospital treatment under region consideration.

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G.V. Ioyleva

Subject and Essence of Reasoning

Keywords and phrases: ideal; logic; reasoning; notion; reality; self-consciousness; language.

Abstract: Reasoning is based on a) an object to comprehend; b) a tool of thinking activity in the form of previously established notions; c) mental activity leading to creating new notions and theories, i.e. creating new abstract objects.

Reasoning is both a mediating and mediated process. It comprises two aspects: *contents* (separate, particular thoughts) and *form* (thought connection, logic). At present, three types of logic are known: 1) objective "logic of things", independent of a person; 2) subjective (of a subject) "logic of practice" which reflects "logic of things"; 3) "logic of reasoning" based on "logic of practice" also as a reflection of 'logic of things'. In our understanding of the matter, *logic of reasoning* is a system of rules and forms which are followed objectively and which contain elements of thought and relations. Without such rules and forms the relation between thoughts is not carried out, without thoughts it is impossible to reflect on relations and connections in reality.

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E.A. Kochina

Features of Supra-Ethnic Socio-Cultural Identity of Young People in the Republic of Khakassia

Keywords and phrases: macro social identity; supra-ethnic identity; culture; society; modernization; transformation.

Abstract: This paper discusses the problem of supra-ethnic socio-cultural identity of young people (on the example of the Republic of Khakassia). The comparison of some contemporary theoretical approaches to the notion of identity and supra-ethnic identity is given. The results of the empirical research conducted in 2014 (May-October) in the Republic of Khakassia are described. An empirical study contains the analysis of indicators among young people such as significant value orientation, attitudes towards migration, civil identity, etc.

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A.R. Preymak

Bernard Reyes's Heritage: Struggling for Native American Cause in the Twentieth Century

Keywords and phrases: activism; Indians; Native Americans; person in history; protests; self-determination; urbanization.

Abstract: This paper describes lifelong achievements of the Native American activist Bernard Reyes. The author analyses his activity and the heritage he left behind struggling for Native self-determination in the twentieth century. As a co-founder of United Indians of All Tribes Foundation and Daybreak Star Cultural Center, he remains one of the most valuable leaders of Native American modern history.

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R.V. Fedoseyev

The Use of Hired Labor in Nobility Households of the Middle Volga Region in the Second Half of XIX – Early XX Centuries

Keywords and phrases: hired labor; aristocratic household; hiring; working out; payment; property; Middle Volga region.

Abstract: The paper discusses the features of the use of hired labor on the farms of local nobility of the Middle Volga in the second half of XIX – early XX centuries. The author analyzes the key aspects associated with the transition to this type of relations between landowners and peasants. The specificity of the formation of prices for hired labor and its value in the provinces of the region has been shown.

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A.V. Shchipkov

Christianity and Social Democrats

Keywords and phrases: Apostolic Christianity; corporation; left-wing idea; community; post-Protestantism, Protestantism; just society; uranopolitizm.

Abstract: The paper discusses why it is impossible to remove the idea of justice from Christianity; the author focuses on the approximation and synthesis of left-wing ideas and values of apostolic Christianity in a single discourse.

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Linguistics

E.V. Astaschenko

G. Meyrink's Allusions in the Last Novels of A. Bely and M. Bulgakov

Keywords and phrases: nouveau; decadence; symbolism; mysticism; irrealism; synthesis of arts; paraphrasing; allusions.

Abstract: This paper is dedicated to the allusions by G. Meyrink in the last novels of A. Bely and M. Bulgakov. The author focuses on the unifying artistic synthesis of these authors in literary, musical, scenic, genre and linguistic innovation. The emphasis is put on using paraphrases to create realities of the image of "Invisible City", revealed in the "Second Babylon", which were significant in the first third of the twentieth century.

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G.A. Zhilicheva

Functions of the 'Author's Intrusions' in Russian Novels of the 1920–1950s

Keywords and phrases: author's intrusion; narrative; narrator; narrative instance; narrative strategy.

Abstract: This paper deals with the correlation between formal components of the narrative and its notional intention. The narrative strategy (configuration of subject, object and addressee) in the Post-symbolism novels on the level of narrative structure is analyzed. Variations of including first-

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person narrative fragments (author's intrusions) into third-person narration are observed as well as dependence of those fragments on the concept of personality manifested in the novel. The research is based on V. Kataev's, K. Vaginov's and B. Pasternak's novels, which belong to different paradigms of literary art (Socialist Realism, Avant-gardism and Neo-traditionalism).

E.V. Orlatykh

Lexeme "Law" in Naive Understanding of Russian and English People

Keywords and phrases: political lexis; lexeme; law; semantic component; experimental method.

Abstract: The paper studies understanding of the lexeme "law" by Russian and English people on the material obtained from 96 informants. Data handling was carried out on three semantic components of the word's meaning: conceptual, denotative and axiological.

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E.A. Smolonogina

Correlation of Situationality and Intentionality in Texts of German Football Fans

Keywords and phrases: intention of the text; intentionality; situationality; space; success in achieving the goal; text producer; text recipient; texts of football fans, time

Abstract: This paper focuses on the correlation of such important standards of textuality as situationality and intentionality in the texts of German football fans. The main idea of the paper is to show how elements of situationality (time, space, text producer, text recipient) influence the implementation of the author's intention and pragmatic function of the text.

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Information Science, Computer Engineering and Management

E.S. Budkina

Assessment of Bankruptcy Probability Based on Integrated Risk Assessment of Financial Insolvency

Keywords and phrases: bankruptcy probability; method of bankruptcy probability assessment; solvency; financial sustainability.

Abstract: In this paper, the method of assessing the probability of bankruptcy based on a comprehensive scoring method of financial insolvency risk is considered.

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A.O. Ryzhkov, D.V. Sokolov

The Analysis of Main Methods of Assessing the Impact of Fiscal Tax Incentives as a Tool of Government Control of Innovation in the Information Society

Keywords and phrases: analysis; testing; innovation; incentives; research and development; research; information society, public administration.

Abstract: The paper discusses the key methods for assessing the fiscal impact of tax incentives as an effective instrument of state policy in the information society. Possible approaches to quantify the effect of the introduction of a particular tax benefits are discussed.

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O.V. Tarakanov

The Assessment of Anti-Virus Tools Stability to False Alarms Caused by their Own Anti-Virus Files

Keywords and phrases: antivirus; false positive; false negative; viruses.

Abstract: Facts of false positives described in the open literature belong only to random errors in the anti-virus software, including errors in the database of signatures. For this reason, the creation of the destructive effects of false positives in the guise of the signature method reduces the likelihood of detection. Developers of modern anti-virus tools do not consider error generation of the first kind as a possible way to manipulate antiviral agents. This paper describes the results of experimental studies showing the instability of the modern anti-virus tools to deliberate effects in order to increase the probability of errors of the first kind.

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Economic Sciences

G.B. Hajiyev

Regulation and Developmental Directions of Grain Farming

Keywords and phrases: grain farming; agriculture sector; production; sale; state regulation; agriculture

Abstract: The paper discusses the need to organize grain farming, which has been essential in ensuring food security; the author discusses the role of grain farming in modern conditions and the

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ways of its development. At the same time, the paper determines the source of increasing grain production throughout the economic transformation. Using certain data sources on the development of grain production, the proposals on the development of business activity, creating favorable economic conditions have been made.

V.V. Dushchenko

General Equilibrium Theory and Terms of Economic Rationality

Keywords and phrases: economic philosophy; general equilibrium theory; macroeconomics; rationality; scientific methodology.

Abstract: The paper discusses the possibility of applying the terms of rationality to the evaluation of the economic equilibrium theory – the core paradigm of modern macroeconomic picture of the world.

It is shown that an essential characteristic of modern research in the field of economic equilibrium is excessive ‘mathematization’ of economic development, sometimes to the detriment of the theoretical and practical value of the scientific material.

The author concludes that one of the primary objectives of modern economic methodology should be the development of a set of criteria of rationality in economic studies to evaluate the use of the analytical tools borrowed from other sciences.

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V.A. Zimin

Budgetary Investment in Construction Industry

Keywords and phrases: construction industry; construction facilities; budgetary investment; principles; directions; ways; financing tools; Samara; the Samara region.

Abstract: The paper shows the value of rational use of budgetary funds in modern Russian conditions; the terms of budgetary funding are specified. The basic principles of budgetary financing of construction industry and objects of construction are considered. The strategic directions of the budgetary investment are defined. The allocation of budgetary funds in Samara and the Samara region is shown. Proposals on rational use of the available investment resources made.

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R.F. Ildarkhanov

Features of Rolling Stock Economic Efficiency Calculation in International Road Transport

Keywords and phrases: competitiveness; international road transport; rolling stock; economic efficiency.

Abstract: In the paper, the peculiarities of rolling stock economic efficiency calculation in international road transport are discussed. The causes of lack of profitability in the operation of expensive cars from domestic carriers are shown.

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A.I. Garayev

Promising direction of Development of Food Export and Import in the Azerbaijan Republic

Keywords and phrases: financial relations; imports; exports; food production; agriculture.

Abstract: In the paper, the author describes the conditions of formation of new financial relations given the existing opportunities and promising directions of development of food export and import. The advantages of import of some types of agricultural products in Azerbaijan are listed. From this perspective the ways to increase production and decrease imports are defined.

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T.B. Malinina

Distributional Justice: Measure of Labor and Measure of Consumption in the System of Private Property Relations

Keywords and phrases: distributional justice; measure of labor; measure of consumption; private property; distribution by labor.

Abstract: The paper describes the notion of distributional justice from the position of correlation of the measure of labor and the measure of consumption is analyzed. The distribution by labor is considered from two sides – as distribution by labor producing value and distribution by labor producing use value. The conclusion on the distributional justice is connected with the distribution by labor producing use value is made.

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Legal Science

V.N. Savardunova

Psychological and Criminological Characteristics of Interpersonal Conflicts of Convicts in

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Correctional Institutions

Keywords and phrases: interpersonal conflict; conflicts; collision; antagonism; conflict situation; group conflict; criminal conflict; criminal situation; prevention.

Abstract: The paper deals with the analysis of interpersonal conflicts between inmates, serving sentences in correctional institutions. The atmosphere in correctional institutions is psychologically and criminally intense. The emergence of conflicts among inmates is connected with contradictions in their environment, antagonism, and conflict of interests. Being in conditions of social isolation convicts seek to raise the status, and reach a leading position. The conflicts have psychological and legal nature. A usual conflict can develop into a criminal one. The interpersonal conflicts disorganize normal activity of staff of structural divisions of correctional institutions. Special intensity is created by the group conflicts having the structural organization in which inmates play various roles: organizers, helpers, instigators, intermediaries, judges. They create a threat to security to the employees and inmates, criminal conflicts, especially crimes against individuals, hooligan actions, mass riots, taking hostages, and escapes. The prevention of conflicts between inmates should be based on a complex basis of measures of psychological, educational, preventive influence, identification of the reasons and conditions of emergence of the conflicts.