

DOI: Scientific research of the SCO countries: synergy and integration

May 14, 2020. Part 1

Поле	Значение
Объект №1	
Заголовок	DEVELOPMENT OF A COMPREHENSIVE DIGITAL MODEL OF COST-EFFECTIVE QUARANTINE MEASURES AGAINST THE COVID-19 EPIDEMIC
Аннотация	<p>The worldwide development of the COVID-19 coronavirus epidemic is characterized by delayed decision-making on harsh quarantine measures in almost all countries. It is not difficult to assume that the adoption of too harsh measures that are optimal from a medical point of view can lead to disastrous consequences for the economy, and hence worsening social situation. Hence, the need arises to quickly develop a comprehensive economic and epidemiological model that could combine well-developed epidemic management models with well-developed models of economic growth management, which is the goal and result of this work. A modified SIR model was used as the basic epidemic model. As a model of economic growth, we used the probabilistic model of mixed economic systems that we developed. The integration of these models in an extremely simplified version into a single system of discrete equations has been performed, which can be used as a comprehensive economic and epidemiological model.</p>
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Объект №2	
Заголовок	THE FORMATION OF HUMAN CAPITAL OF ENTERPRISES BASED ON THE DEVELOPMENT OF MANAGERIAL AND PROFESSIONAL COMPETENCIES OF PERSONNEL

Аннотация	The article substantiates the importance of the managerial and professional competencies of personnel for the formation of the human capital of an enterprise on the example of a study of the managerial competencies of middle managers. One of the enterprises in the field of informatization of the economy (development, introduction and implementation of digital economy products) was chosen as the object of research. The subject of the study was the managerial and professional competencies of middle managers. A new approach to assessing the existing level of a number of key competencies is proposed. Based on the results obtained, a brief analysis was carried out and recommendations were developed on transforming the structure of key managerial competencies in order to determine the strengths and directions of development of the competencies of middle managers, as well as building individual training programs as the basis for the formation of the human capital of an enterprise.
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Объект №3	
Заголовок	FINANCE – ENERGY BALANCE
Аннотация	<p>This study addresses the laws and rules of the functioning of contemporary socio-economic systems. Major emphasis is placed on energy as the main component of the existence and development of systems. More accurate notions of commodity and money are given in terms of philosophy. A scheme of the finance- energy balance of a country, a union, a system has been proposed and substantiated. The study analyzes the laws of monetary circulation. The following new notions are introduced: the food-energy budget (FEB), based on the well-known notion of energy budget (EB), and the energy for development, E_m, as a sum of EB FEB. The energy unit is proposed as a standard monetary unit, and the law of monetary circulation is expressed as the following system of equalities: $M E M E_m$ or differentially: $M /E1$ where M is a monetary unit, E is an energy unit, M is the quantity of money, E_m is the energy for development ($E_m EB FEB$).</p>
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Объект №4	
Заголовок	COMPARATIVE LAW ANALYSIS OF LEGISLATIVE REGULATION OF LAW ENFORCEMENT TURKEY AND KAZAKHSTAN
Аннотация	This scientific and analytical article is a logical continuation of the study about the legal framework for law enforcement services of Turkey, in which a comparative law analysis between the law enforcement systems in Turkey and Kazakhstan was carried out. The author tried to examine in detail the current issues of legal regulation of research topic, to conduct the comparative analysis of the main aspects and possible omissions in the legislation governing the activities of law enforcement bodies of the Turkish Republic and the Republic of Kazakhstan. Based on the conducted comparative analysis and review of the positive aspects of the legal regulation of the Turkish legislation in the field of law enforcement, the author worked out proposals aimed at improving the legislation and which can be taken into account in the legislative process of Kazakhstan and Turkey.
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Объект №5	
Заголовок	CIVIC IDENTITY OF ADOLESCENTS IN THE AGE OF DIGITAL ECONOMY
Аннотация	The article substantiates the assumption that in the era of digital economy and changing labor market, mass migration, climate change, and global competition for human capital and investment exacerbated the problem of civil identity formation of adolescents. It is shown that the study of civic identity requires careful multidisciplinary approach, including analysis of the ontological, moral, environmental, socio-political, subjective and personal components. The risks are discussed associated with the awareness of social responsibility, civic self-identification of students of adolescence.
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Объект №6	
Заголовок	DETERMINANTS OF THE DEVELOPMENT OF ANTI-CORRUPTION POTENTIAL

Аннотация

The article touches upon the sources, factors, and indicators of anti-corruption potential. The purpose of the study is to identify the personal determinants of the development of anti-corruption potential of the individual. The article introduces the analysis of the current state of the problem of the development of anti-corruption potential, substantiates the interpretation of this concept, highlights the key problems in the field of anti-corruption education. The results of an empirical study are also presented. The respondents were 68 first-year students of the Transbaikal State University aged from 19 to 25 years. The factor analysis of aggregated data allowed us to find out 6 significant factors (76.8 of the variance). Factor 1 (31.6) contains the positive aspects of life: satisfaction with self-realization and achieved results, the ability to make decisions, and freedom of choice in the form of an action, the aspiration for the future perceived as something attractive the ability to integrate and control different activities and conduct, manage and control the emotions effectively enough a sense of self-worth according to the criteria of spirituality, the richness of the inner world the interest in life, a high level of optimism internality connected with achievements, family relations. Factor 2 (16.4) includes such parameters as illusory freedom of choice, lack of confidence in the ability to build your life according to your ideas, disbelief in your ability to control the way of your living self-blame, internal conflict, fear of entering your world an external locus of control. Factor 3 (6,8) covers the perceptions of people as of non-independent personalities characterized by dissatisfaction with their abilities, a high level of emotional tension preparedness to accept their lifes failures denying of problems, closedness. The results of the research can be used for the development of anti-corruption education programs.

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Объект №7	
Заголовок	PRO-SOCIAL BEHAVIOR UPBRINGING IN THE CONTEXT OF VOLUNTEERING ACTIVITIES OF MEDICAL STUDENTS
Аннотация	The paper highlights the impact of volunteering activities on medical students education and upbringing. Pro-social aspect of volunteering is characterized. The authors analyze directions of students social activities as well as age, gender and motivation of medical students participating in volunteering activities.
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Объект №8	
Заголовок	COLLECTIVE INTELLIGENCE, "SMART CROWDS" AND THE ACTIONS OF SCIENCE
Аннотация	<p>In insects with social lifestyle, there is division of labor. Scientists have long used the concept of superorganism, in which each individual is only part of something larger. In the forest, typical representatives of this phenomenon are red wood ants 1 In 1911, Wheelers article, The ant-colony as an organism, was published. In it, the author first formulated and defended the idea, which later became known as the concept of superorganism. According to this concept, a colony of social insects is a real organism, quite comparable in composition, organization and basic life functions with an ordinary organism. Communication mechanisms bind all parts of a superorganism into a single whole, and make it possible to maintain the stability of their basic properties. The superorganism is capable of responding to external influences quite reasonably and behaving as a whole. 2 Kevin Kelly sees the origins of theories regarding suddenly-occurring properties in the teachings of William Morton Wheeler, an expert on the behavior of ants. Wheeler called insect colonies superorganisms and determined the ability of the swarm to perform tasks that separate individuals cannot perform as suddenly arising properties (emergent).</p>

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Объект №9	
Заголовок	RHETORICAL FIGURES AS METHODS OF EFFECTIVE SPEECH-THINKING ACTIVITY OF LINGUISTIC PERSONALITY.
Аннотация	The paper is devoted to the rhetorical figures one of the important mechanisms for achieving this speech ideal in terms of such an important communicative quality of speech as its expressiveness. The paper considers the issue of preparing a future specialist for the effective intercultural communication and rhetorical figures, which must be purposefully and on a systematic, classification basis introduced into the daily practice of his speech-thinking activity
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Объект №10	
Заголовок	INFORMATION WAR IN THE FIELD OF ENERGY SECURITY

Аннотация	The article reveals the content of the information war as an impact of information and information flows on public opinion in order to achieve certain results. The author argues that the main aspects of the energy security for exporters and importers countries of energy resources are different. In these conditions, the media play a leading role in the implementation of information wars in the field of energy security, and act as a means to achieve political and economic goals, to form and establish the necessary social change.
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Объект №11	
Заголовок	THE EFFECT OF ADAPTIVE YOGA CLASSES ON THE PSYCHOSOMATIC CHARACTERISTICS OF CHILDREN WITH AUTISM SPECTRUM DISORDER

Аннотация	the article considers the influence of adaptive yoga course on the level of neurometabolism and adaptive reactions of the nervous system of adolescent children with autism spectrum disorder. The goal of adaptive yoga practice is to help the child in any initial state achieve the maximum possible and complete development. Regular practice of yoga has a beneficial effect on the psychosomatic state of children with special needs. The main emphasis in practice is placed on the development of cerebral hemispheres and interhemispheric connections, concentration of attention, development of coordination of movement and feeling of ones body.
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Объект №12	
Заголовок	THE MAIN DIRECTIONS OF RUSSIAN-CHINESE SCIENTIFIC AND INNOVATIVE COOPERATION AT THE BEGINNING OF THE XXI CENTURY

Аннотация	scientific and technical cooperation remains one of the most important elements of the entire complex of relations between Russia and China. The article considers the main directions of innovative and scientific interaction of States, defines their prospects. The author notes that the developed legal framework of bilateral relations allows us to hope for even more effective cooperation and concludes that this sphere of interaction between Russia and China will have a significant impact on the economic development of both countries, increase the competitiveness of Chinese and Russian products on world markets, and improve the quality and standard of living of the population.
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Объект №13	
Заголовок	THE SOVIET PAINTING OF «SERVERE STYLE»

Аннотация	<p>Judgment of the difficult cultural and art phenomena of the Soviet fine arts from Khrushchev's thaw to Post-Soviet decadence went a long way for the last 30 years. Researchers stated extreme views, from banal ascertaining of the single phenomenon in the general context of the Soviet art of the sixtieth years, by fixing of its art value through concrete works in the seventieth and, finishing hot polemic in the late eighties - the ninetieth years. Quite considerable number of publications 1980 - 90 - x years in which the phenomenon of severe style is considered under a microscope, obviously speaks about the deep and serious analysis of this phenomenon of the Soviet art in comparison with the previous decade of interesting searches of men of the seventies, for the period of severe which covered creativity. Persistent interest in the Soviet fine arts 60 70 - x for of the XX century is presently a natural consequence of change of cultural paradigms and shows confusion before diversity and diversity of the modern fine arts. Therefore, first of all, the ideological and art programs of severe style setting a vector of the movement from a publicistic expression in its early period to religious philosophically art judgment of problems of life in the next decades have to become a subject of a serious art criticism research.</p>
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Объект №14	
Заголовок	RATING SCALE OF THE RESULTS OF SURGICAL TREATMENT OF PATIENTS WITH TRANSVERSE FLATFEET
Аннотация	<p>The article considers the problem of assessing the longterm results of surgical treatment of patients with pathology of the anterior foot. An improved scale for assessing the results of treatment is proposed, which, in contrast to the generally accepted and most commonly used in clinical practice of AOFAS and Groulier scales, takes into account the subjective assessment by the patient and the doctor. A comparative study was conducted involving 128 patients. All patients were interviewed on three scales for evaluating treatment outcomes. When analyzing the results, the percentage of positive ratings given by the doctor and the patient practically coincides (91.4 and 89.8, respectively). However, a further analysis shows that the percentage of good marks given by patients is much higher (76.5) than by doctors (64.8). All this suggests that today doctors are more demanding and picky about the results of surgical treatment than patients. The introduction into clinical practice of an improved scale for assessing treatment results is advisable for further improving the choice of surgical treatment for various types and degrees of deformation of the anterior part of the feet.</p>

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Объект №15	
Заголовок	THE USE OF PHYSICAL FACTORS IN THE COMPLEX ETIOPATHOGENETIC THERAPY OF PATIENTS WITH CORONAVIRUS-19
Аннотация	<p>Fundamental scientific research of domestic and foreign scientists convincingly indicates that the progress of medicine is impossible without the widespread use of modern physical factors in the diagnosis, prevention, treatment and rehabilitation of almost all nosological forms of diseases from newborns to old age patients. Each microand macroorganism has individual bioenergetic characteristics that correspond to its type, which is the main condition for the normal functioning of the body. In the case of the appearance of alien bioenergetic characteristics, specific biological processes inherent in this organism are violated, which leads to its death</p> <p>13. The biopotential of each person is strictly individual, both in norm and in pathology. The degree of biopotential deviation corresponds to the stage of development of the disease, i.e. the formation of intermediate states of the body with a violation of its supramolecular structures. 115</p>

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Объект №16	
Заголовок	BIOINDICATION OF ENVIRONMENTAL OBJECTS USING CILIATES PARAMECIUM CAUDATUM AND TETRAHYMENA PYRIFORMIS
Аннотация	The results of a study of the influence of salts of heavy metals, as well as some organic substances on the survival of ciliates under certain cultivation conditions, are presented. It was found that Paramecium caudatum and Tetrahymena pyriformis have different sensitivity to solutions of heavy metal salts of various concentrations, synthetic surface-active substances (SSAS), phenol and oil products.
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Объект №17	
Заголовок	FAR EASTERN LANDSCAPE PARADIGM OF INDICATION AND PLANNING
Аннотация	<p>The article states, that in Russia, an actual landscape school is formed under the leadership of Professor V.T. Starozhilov in the far Eastern Federal University for the study of landscape sphere, which is aimed at the rational exploitation and use of territories and minimizing the global and regional implications of changes in the nature and society and the search and implementation of innovative approaches to sustainable, environmentally balanced and safe development of the vast far East region. Was given objective information about the level of FE security landscape framework and instruments for the solution of tasks given by the President and the government of the Russian Federation for the exploration and development of the far Eastern region, and the strategy of development of landscape science in the Russian far East. It is noted that the existing landscape foundations and experience in the practical implementation of landscape planning and their relevance in the development of territories already determine significant opportunities for the practical implementation of the landscape approach in planning and designing of natural resources in the Pacific Russia. The practical landscape orientation of science and education, in the conditions of intensive development of territories, is significant in the implementation of the tasks of developing regions and creating professional personnel.</p>

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Объект №18	
Заголовок	ANALYSIS OF CLIMATIC CONDITIONS DURING THE PAST 24TH CYCLE OF SOLAR ACTIVITY AND THEIR MOST LIKELY CHANGES DURING THE NEXT 25 AND 26TH CYCLES ON THE LOWER VOLGA AND IN THE NORTHERN PART OF THE CASPIAN SEA
Аннотация	The main regularities and dependences of the Earths climate and its individual regions on the cycles of solar activity known today are used. A description is given of the expected variability and specifics of the long-term characteristics of the hydrological and thermal regimes of the lower Volga and the northern part of the Caspian Sea for the previous periods, the period of the 24th cycle and the conditions of the upcoming 25th and subsequent 26th cycles of solar activity.
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Объект №19	
Заголовок	ON THE BAYESIAN MULTIDIMENSIONAL-MATRIX POLYNOMIAL EMPIRICAL REGRESSION
Аннотация	The problem of the parameters estimation for the polynomial in the input variables regression function is formulated and solved. The input and output variables of the regression function are multidimensional-matrices. The parameters of the regression function are assumed to be random independent multidimensional matrices with Gaussian distribution and known mean value and dispersion matrices. The solution to this problem is a multidimensional-matrix system of the linear algebraic equations in multidimensional-matrix unknowns function regression parameters. We have considered particular case of quadratic regression function, for which we have obtained formulas for parameters calculation. The computer simulation of the quadratic regression functions is performed for the two-dimensional matrix input and output variables.

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Объект №20	
Заголовок	LOW-TEMPERATURE ELECTRIC POWER GENERATION

<p>Аннотация</p>	<p>In his work examined modern theoretical ideas about the nature of energy transformation processes within the boundaries of matter and motion, analyzed the four laws of thermodynamics, evaluated current attempts of technical implementation of a Maxwells Demon virtual experiment. In his work theoretically calculated the possibility of autonomous production of thermal and electric energy from low-temperature sources - soil, water, air, solar radiation, created experimental installations on which theoretical substantiation was confirmed. In 2019 RF patent was received, PCT and EAPO international applications were filed applications are also filed in key countries, created a functioning autonomous climate system operating at a real facility. The author proposed the formulation and proof of the energy theorem. A new interpretation of the second law of thermodynamics is theoretically substantiated and proposed. The prospects for the development of distributed autonomous low-temperature carbon-free power generation are outlined. The author has more than 50 publications and more than 20 Russian and foreign patents for inventions.</p>
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Объект №21

Заголовок

REQUIREMENTS FOR DISTRIBUTED GENERATION SOURCES WHEN THEY ARE CONNECTED TO ELECTRIC NETWORKS

Аннотация

This article discusses the requirements for distributed generation sources when they are connected to the electric network and the problems of some differences on this issue, indicated in regulatory documents. Distributed generation facilities include heat and power plants in settlements and small and medium generation facilities (diesel generators, solar and wind stations), block stations, which are owned or rented by industrial enterprises. In connection with a noticeable increase in the number of distributed generation facilities, problems arise in connecting them to a centralized network and maintaining the quality of electricity among consumers. Russia has adopted laws and regulations that govern these processes. The authors of the article analyze and compare regulatory documents and proposals of some Russian and foreign organizations for connecting distributed generation facilities, in particular solar power plants, to a centralized network.

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Объект №22	
Заголовок	BIM TECHNOLOGIES FOR DESIGNING BUILDING SYSTEMS
Аннотация	The article is devoted to the study of the functionality and role of the application of BIM technologies in designing at the present stage of development of information structures in Russia. The author noted that the constant increase in the complexity and high technology of the design sphere leads to new questions in the concept of implementing its tasks. It is also indicated that a typical problem for the construction and design industry all over the world is the use of outdated methodologies and system software systems, which for the most part are mechanized and require a lot of labor and human resources, including monitoring during the working cycle of the construction site. Therefore, it is justified to use BIM technologies in design, as a key effective concept for improving all the processes in this industry.
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DOI	10.34660/INF.2020.28.63874

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Объект №23	
Заголовок	THREATS IN THE FUNCTIONING OF VENTILATION INSTALLATIONS IN ANTHROPOGENIC SPECIAL OBJECTS – SHELTERS
Аннотация	The paper presents technical problems associated with obtaining a high tightness of shelter facilities, which is necessary to protect their interiors against the ingress of intentionally contaminated external air. Another very important factor affecting the trouble-free operation of the shelter is the reliable operation of ventilation systems ensuring the required microclimatic parameters of air for protected people and maintaining the inside temperature of the facility within acceptable limits.
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DOI	10.34660/INF.2020.28.63875

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Объект №24	
Заголовок	OPERATING THREATS FOR ANTHROPOGENIC OBJECTS RELATED TO INSTALLATIONS OF SPECIAL OBJECTS - SHELTERS
Аннотация	The paper discusses the significant threats to health and life of people staying in shelters isolated from the external environment. These threats result from improper maintenance of shelter installations and deficiencies in their technical equipment. This mainly applies to secondary water pollution in the installation and infiltration of contaminated external air into the shelter.
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