

## ECONOMIC SCIENCES

**A. V. Arkhipov, A. V. Soshnikov**

### *METHOD FOR RATIONAL ORDERING OF WORKS ON THE TECHNOLOGICAL LINE IN THE PRESENCE OF EQUIPMENT REPAIRS*

*The problem of choosing a rational order of work in technological complexes with a sequential structure, widespread in various industries, is considered. The statement of the problem differs by taking into account the readjustments of the machines included in the line, when changing the work performed. A multicriteria model of the problem is proposed. An approach and specific methods for finding rational options for ordering work when they are launched on the line are proposed. The approach is based on the use of the principles of systematic heuristics, which allow generating a limited and controllable number of options, taking into account the production conditions, among which, it is assumed, there are rational (practically acceptable) options.*

**Keywords:** *technological lines, machine readjustments, work sequence, multi-criteria model, heuristic methods, Pareto-optimal solutions*

**Romanova I.V., Zakharova R.L.**

### *IMPROVEMENT OF THE SYSTEM OF ACCOUNTING AND CONTROL OF LEASING OPERATIONS*

*In the modern economy, lease relations are one of the most common forms of economic relationships between enterprises. This sphere of economic relations allows enterprises that do not have the appropriate financial capabilities to acquire ownership of this or that property necessary for the implementation of the most effective economic activity. The second party, in turn, receives economic benefits in the form of rental payments for the property. Leasing is the most common form of lease relations, since the lessee can choose the supplier and the leased asset that the lessor will have to purchase for him.*

**Keywords:** *leasing activities, specifics of accounting for leasing transactions when applying FSBU 25/2018, determining the initial assessment of leasing obligations, checking lease payments, reflecting leasing transactions in the accounting policy*

**Antsupova A.S., Arkhipov A.V.**

### *MODEL OF SELECTION IN THE DISTORTION OF CRITERIA INFORMATION BY ACTIVE OBJECTS*

*In the development of the models of choice previously proposed by the authors in a competitive situation, in which an arbiter is actively acting, setting the rules, choosing the subject and objects of choice, a model is considered in which uncertainty factors manifest themselves in the possible distortion of information about their characteristics (criteria) by objects. When describing the participants, a number of concepts are introduced: for the arbiter - "the function of a penalty", for the subject - "the degree of confidence in the presented data", for objects - the functions of "readiness to distort information" and "fear of being punished for distorting data". Formalization options are proposed for all functions. Risks for the subject and objects due to the behavior of the participants are indicated. An approach is formulated to assess these risks, as well as the influence on them of the parameters of the functions introduced when describing the participants.*

**Keywords:** *Pareto optimality, "Pareto layer", subject rationality, level of trust, information distortion, penalty function, risk*

**Samoilov A.V., Drozdova A.P., Lashkova N.G.**

### *ISSUES OF FINANCIAL IMPROVEMENT OF A BUSINESS ENTITY IN THE CONTEXT OF INFORMATION SUPPORT OF PRODUCTION PROCESSES*

*The article examines the development of business processes in the context of the globalization of the economy, the assessment of external and internal factors affecting the management and development of measures to protect against economic risks and ensuring the subsequent prevention of financial threats in the context of information systems used to prevent risk-containing factors.*

**Keywords:** *financial recovery of the company, management system, enterprise management*

*functions, information systems for economic security*

**Kuzmina S.N., Leventsov V.A., Chernikova A.V., Abushova E.E.**

**FEATURES OF EQUIPMENT LIFE CYCLE MANAGEMENT WITHIN THE FRAMEWORK OF LEAN PRODUCTION**

*Quality management methods have long and firmly taken their place in the activities of organizations of branches of the national economy. Today, according to some sources, there are about two hundred different quality management methods based on the use of quantitative and qualitative information, software and a variety of tools. One of these tools is lean manufacturing, the principles of which have become firmly established in the work of enterprises. The article discusses the principles of the concept of lean production in their relationship with quality management methods and analyzes the possibility of their application for the technological cycle of an industrial enterprise. Also, the life cycle of equipment is considered by analogy with the life cycle of products and the possibility of its lean management. Interesting is the author's approach to the study of the specifics of equipment lifecycle management, taking into account the trends of digitalization and frugality. The authors suggest possible directions for the development of the effectiveness of assessment in the practical activities of enterprises. The research results presented in the article formed the basis for the creation of an online course "Lean Manufacturing" with the support of the grant competition of the Vladimir Potanin Scholarship Program 2020/2021 ".*

**Keywords:** *quality, management, lean manufacturing, equipment life cycle, industry, enterprise, efficiency*

**Lashkova N.G.**

**ISSUES OF ENSURING ECONOMIC SECURITY AND MODERN SOLUTIONS IN THE MANAGEMENT SYSTEM OF A BUSINESS ENTITY**

*The article is devoted to the issues of increasing the financial independence of the company, the assessment of external and internal factors affecting the development of measures to protect against economic risks, ensuring the subsequent prevention of financial threats and risk-containing factors.*

**Keywords:** *resource-functional approach, risky situations in the company's activities, social and production infrastructure, legal protection of the company's activities, software products for creating conditions for economic protection*

**Tsatsulin A.N.**

**LABOR MARKET VS COVID-19**

*The article is devoted to the state of the labor market in connection with the dire consequences of the pandemic, the self-isolation regime and limited quarantine. Trends and dynamics of employment processes, unemployment rate, demographic difficulties of the country, the impact of the situation in the labor market on certain aspects of digitalization of the national economy and the features of work in conditions of remote access to a stationary workplace are considered. The author also touched upon other special issues of labor relations, the doubtfulness of some statistical calculations of the recursive influence of political factors on the behavior of coronavirus infection and the consequences of the Covid-19 epidemic using indicators of morbidity, mortality and lethality of the disease.*

**Keywords:** *labor market, economically active population, employment, unemployment, pandemic, crisis, demographic consequences, political effects*

**Soshnikov A.V., Kuprin A.A., Danilova T.V.**

**ASSESSMENT OF THE STATE AND MANAGEMENT OF THE TOURIST POTENTIAL OF THE REGION ON THE EXAMPLE OF ST. PETERSBURG**

*The article discusses the advantages and problems of tourism development in St. Petersburg, where the successful development of the sphere of tourism activities takes place with active government support, which is associated both with investment in this infrastructure, and with the use of tax and other incentives in order to stimulate development properties. tourism.*

**Keywords:** *sphere of tourism, development of tourism business, analysis of the state of tourism, structure of the tourism industry*

**Taranenko E.Yu., Mkrtychyan R.V.**

**IMPROVEMENT OF QUALITY MANAGEMENT OF THE FUNCTIONING OF THE ENTERPRISE BASED ON INSTRUMENTS OF ORGANIZATIONAL CULTURE**

*A modern enterprise needs to maintain a high level of creativity and creative potential required for the development and implementation of advanced technologies, innovative approaches and science-intensive products and processes. The implementation by the enterprise of a high-quality complex of scientific research and experimental-design developments (R&D) is a fundamental factor in its competitiveness. A model of an integral indicator of the quality of R&D of an enterprise was developed on the basis of the main indicators of the value pressure of its organizational culture. The developed toolkit reflects the mechanism for improving the quality management of the functioning of an enterprise through a system of motivators embedded in the system of its value coordinates.*

**Keywords:** *model, quality management of enterprise functioning, a complex of research and development (R&D), organizational culture, value pressure, creative potential, competitiveness, integral indicator*

**A. V. Kudryavtsev**

**CRIMINALIZATION OF FINANCIAL AND ECONOMIC ACTIVITIES OF COMMERCIAL ORGANIZATIONS IN THE SYSTEM OF THREATS TO THE ECONOMIC SECURITY OF THE COUNTRY**

*The article provides an assessment of the threat of criminalization of the financial and economic activities of commercial organizations among other threats to the economic security of Russia. The aim of the study is to substantiate the identification of this threat, to determine its share among other threats. The article used analytical and formal-logical methods, the method of expert assessment. The results obtained can find practical application in planning the operational activities of law enforcement agencies related to countering the criminalization of the economy.*

**Keywords:** *economic security, criminalization, financial and economic activities, counteraction, threat*

**T.N. Nekrasova**

**ECONOMICALLY SECURE STATE OF THE FINANCIAL SERVICES MARKET AS A NECESSARY CONDITION FOR THE ECONOMIC SECURITY OF THE COUNTRY**

*The article deals with issues related to the Russian financial services market. Analyzed the state of the market in terms of its development and the segments identified by the author. As a result, conclusions were drawn about the current state of the market and directions of development.*

**Keywords:** *financial services market, economic security, financial services, stock market, banking services market, insurance services market, microfinance market*

**Zharov A.G.**

**FEATURES OF INNOVATIVE ACTIVITIES OF ENTERPRISES OF THE NORTHWESTERN FEDERAL DISTRICT**

*The article examines the features of innovative activities of enterprises in the Northwestern Federal District. The analysis of the theoretical aspects of innovation and innovation activity is presented, the key types of innovation are highlighted.*

**Keywords:** *innovations, innovation activity, regional management, peculiarities of innovation activity*

**Pinkovetskaya Yu.S.**

**ASSESSMENT OF THE POPULATION OF MODERN COUNTRIES PARTICIPATION IN FINANCING OF EARLY ENTREPRENEURS**

*The aim of the study is to assess indicators describing the participation of early adopters and their sponsors in financing new business start-ups. In the course of the work, empirical data obtained as a result of surveys conducted during the implementation of the Global Entrepreneurship Monitor project for 2019-2020 in 50 countries were used. The study showed that the number of early adopters who independently finance the creation of their new business significantly exceeds the number of those who use informal investments; the average values of indicators for the countries under consideration have been determined; demonstrated the presence of significant differentiation*

*of indicators across countries; countries with high and low levels of the considered indicators are identified.*

**Keywords:** *early entrepreneurs, small and medium enterprises, investments, financial resources, sources of financing, borrowed funds*

## **PEDAGOGICAL SCIENCES**

**Domansky V.A., Mironova N.A., Gorskih O.V., Popova N.A.**

### ***RUSSIAN CLASSICS IN LITERARY EDUCATION: REALITY AND MONITORING OF OPPORTUNITIES***

*Literary classics are a category of top exemplary works that have inexhaustible spiritual value for national and world culture. The problem of studying literary classics in methodological science has a long tradition. In order to identify the state and topical problems of teaching classics in modern schools, a pedagogical experiment was carried out in certain regions, detailed analysis of which is presented in the article. Analysis of the personal data obtained during the monitoring made it possible to identify a number of characteristic features of teaching Russian classics in a modern school, to identify the specifics of difficulties in studying individual works of Russian literature, and also to determine the degree of preparation of language teachers to interpret classical texts, and more broadly, to work in new pedagogical realities.*

**Keywords:** *Russian classics, literary education, monitoring, pedagogical experiment*

**Getmanskaya E.V.**

### ***STEAM EDUCATION: APPROACHES OF WESTERN PEDAGOGY***

*The article examines the concept of STEAM education that has developed in modern Western pedagogy over the past decade and a half. Differential signs of STEM and STEAM technologies are analyzed. The practice-oriented basis of this system is focused on the fact that a student who knows well the artistic beginnings of life (literature, painting, music, art design) achieves more in mathematics, and in invention, and in the natural sciences. The process of creating an educational product using STEAM technologies is based on the possibilities of design as a manifestation of the creative thinking of students.*

**Keywords:** *steam education, natural science, technology, engineering, mathematics, art, design*

**V.V. Gorshkova**

### ***ANDRAGOGICAL POTENTIAL OF SOCIOCULTURAL PROSPECTS FOR EDUCATION DEVELOPMENT IN THE CONTEXT OF A SYNERGY APPROACH***

*The article reveals the socio-cultural prospects for the development of education in the coming third millennium from the standpoint of a synergetic approach as a methodology of self-organizing interaction systems. The features of the conceptual apparatus of synergetics, its application for the effectiveness and quality of the organization of the educational process are presented. It is shown how the ideas and content of the synergistic direction in science are extrapolated and used in the development of lifelong education and in the adult education system.*

**Keywords:** *synergistic approach in education, socio-cultural perspectives of adult education, andragogic potential of modern education, self-organized criticality of the subject as creativity, synergistic openness of the teacher*

**Veretennikova O.I., Ivanova A.O., Ignatieva T.A., Pilyavsky V.P., Skulkin A.A.**

### ***DIGITAL EDUCATION IN THE AGE OF GLOBALISM***

*The article is devoted to pedagogical innovations in the implementation of distance learning in the context of globalization; the key tasks of digital transformation of education are described; highlighted the main trends and prospects for the development of digital technologies in education. It is concluded that it is necessary to create a public digital educational portal for all levels of education, which will ensure the openness and quality of training of specialists.*

**Keywords:** *globalization, transformation of education, digital education, distance education, educational technologies, digital technologies*

**Mytseva E.I.**

### ***THE USE OF THE MOODLE SYSTEM IN THE PRACTICE OF TEACHING DISCIPLINES OF***

## COMMUNICATIVE DIRECTION

*The article presents the results of practical experience with the Moodle distance education control system in teaching practical journalistic disciplines. An example of the successful implementation of online resources into the structure of an author's course inside Moodle has been analyzed. The technology of building an electronic course using a single mail account for a study group is given.*

**Keywords:** *information technology, distance learning, moodle education distance monitoring system, electronic course, electronic communication, pedagogical script*

### **Nikolaeva E.A.**

#### **THE USE OF ELECTRONIC MEANS IN PURPOSE OF INTENSIFICATION OF THE PROCESS OF LEARNING A FOREIGN LANGUAGE OF LISTENERS OF THE INFORMATION TECHNOLOGY PROFILE**

*The article highlights the advantages of using information technology in teaching a foreign language. The author focuses on the significant enrichment of the foreign language learning environment by including online learning resources, combining traditional classes with a teacher, independent work online, and, if necessary, an individual work plan, leading to a more rational distribution of study time and successful mastery of language material. A detailed description of the stages of foreign language reading is presented, the classroom and out-of-class stages of foreign language activity are considered. The author focuses on the personal information environment of students and emphasizes the openness of resources.*

**Keywords:** *students of the faculty of information technology, written communication, personal information environment, foreign language activities, stages of reading, oral communication, electronic teaching aids, information culture*

### **Song Ts.**

#### **INTEGRATION OF US EXPERIENCE INTO THE CHINESE EDUCATIONAL SYSTEM (ON THE EXAMPLE OF THE SUBJECTS OF THE ART CYCLE)**

*The article gives an idea of the priorities in teaching art disciplines in the United States and is part of a general survey and analytical work to study the experience of teaching fine and decorative arts in different countries. Its relevance is dictated by the urgent need of the Chinese educational system to assimilate the world teaching experience in connection with the increased aesthetic demands of the Chinese economy. The works selected for the analysis were not considered from the point of view of their application in the methods of Chinese education. This is the novelty of the article. The methodology underlying the work combines general humanitarian principles with historical and cultural ones. The priority is the combination of a historical approach with the latest technology, which is characteristic of US curricula, which meets the needs of the modern system of Chinese teaching subjects of the art cycle. This is the practical value of the work. Despite the strong academic and ethnic traditions in the Chinese school of painting and applied arts, there is a need to complement them with modern innovative teaching methods.*

**Keywords:** *art education in China, academic, traditional, innovative directions, teaching experience in the USA, major art universities in the USA*

### **Zhirkova G.P., Peshkov A.I., Timofeev A.I.**

#### **THE PROBLEM OF ETHICAL RESPONSIBILITY AND ENVIRONMENTAL PEDAGOGY**

*The article analyzes the relationship between ethics and ecological thinking as a mechanism for the formation of a humane attitude of a person to the natural world. The authors consider the concept of the ethics of responsibility, which states that the human desire for complete power over nature threatens us with a global anthropological catastrophe. The article substantiates that the unity of cognitive and value-ethical components, realized in ecological pedagogy in the process of education, is a necessary basis for the formation of adequate ecological thinking.*

**Keywords:** *ethics, responsibility, ecological thinking, values, ecological pedagogy*

### **Sharafadina K.I., Stavtseva O.I.**

**CONFLICT MEASUREMENT OF THE SPIRIT REVIEW ON THE TEACHING AID FOR UNIVERSITIES "CONFLICTOLOGY OF THE SPIRITUAL SPHERE" / S. B. Nikonova, A. M. Sidorov, A. V. Uspenskaya / Ed. S. B. NIKONOVA. M.: YURAYT PUBLISHING. SERIES: AUTHOR'S TEXTBOOK. 2019.318 C**

*The review highly appreciates the collective textbook for universities in the discipline "Conflictology of the Spiritual Sphere". The originality of the author's idea, a high theoretical level, well-thought-out didactic tools are noted. The textbook is distinguished by an interdisciplinary approach.*

**Keywords:** *conflictology of the spiritual sphere, philosophy of spirit, spirit, sacred, ideal, religious conflicts*

**Pisanko V.A.**

*REVIEW ON THE MONOGRAPH "FAMILY IN THE PROBLEM FIELD OF MODERN SOCIETY" [V. V. GORSHKOVA, E. P. TONKONOGAYA, A. A. MELNIKOVA / ED. V. V. GORSHKOVA. SPB .: SPBGUP, 2019. 302 S. (NEW IN HUMANITARIAN SCIENCES ISSUE 70)]*

*The review of the monograph "Family in the problem field of modern society" reveals the essence and content of the modern family in the context of the problematic context of an unpredictably transforming society. Attention is focused on the need for a theoretical substantiation of the problem, the adequacy of scientific analysis and integration of classical and innovative research methods, as well as the use of dialogical and psychosocial technologies for working with the family in the value format of intersubjective relations. Particular emphasis is placed on disclosing parent-child relationships, family roles, relationships between family members, intergenerational conflicts, changing ideas about the family at the present stage, transforming family values in the context of digitalization and Internet reality, as well as technological tools for working with the family.*

**Keywords:** *the phenomenon of the family, modern society, transformation of social values, social uncertainty, parent-child relations, intergenerational conflicts, devaluation of family values, innovation of psychosocial technologies*

**Kudryavtseva M.V., Esaulova M.B.**

*READINESS FOR SELF-GOVERNED LEARNING IS A NECESSARY CONDITION FOR EFFECTIVE IMPLEMENTATION OF INDEPENDENT WORK OF STUDENTS*

*The article deals with the problem of increasing the efficiency of students' independent work. Various approaches to understanding the essence and characteristics of the organization of students' independent work are analyzed. The relationship between independent work of students and self-guided learning is considered. The approaches of Russian researchers to the study of various aspects and components of self-directed learning are analyzed. The article defines the essence of readiness for self-directed learning, and also considers the components of the readiness under consideration.*

**Keywords:** *independent work, students, self-directed learning, willingness, willingness to self-directed learning*