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ECONOMIC THEORY

DICHOTOMY OF STRUCTURAL TRANSFORMATION OF ECONOMY AND MACROECONOMIC INSTABILITY

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The article substantiates the dichotomy of the structural transformation of the economy and macroeconomic instability, which, being in a causal relationship, alternately act as stabilizing and destabilizing forces, both in relation to the structural proportions in the economy and to its dynamics at the macro level. It has been established that macroeconomic instability in Russian conditions, due to the state's alienation from structural policy aimed at preventing degenerative changes, has a structural conditionality. The presented scenarios of the course of structurally-induced macroeconomic instability define it as Y-destabilization with the risk of transition to L-destabilization.

Keywords: dichotomy, structurally-induced macroeconomic instability, reproductive problems, external shocks

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ECONOMICS AND MANAGEMENT OF NATIONAL ECONOMY

FEATURES OF MEGALOPOLIS ENERGY COMPLEX DEVELOPMENT MANAGEMENT

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The article raises the issues of managing the development of the energy complex of the megalopolis. The author's definition of the concept «energy complex of a megalopolis» is given. The characteristics of the megalopolis energy complex are described and its features are emphasized. The principles of organization of development management are listed and supplemented.

Keywords: megalopolis; energy complex; development management; strategy; planning principles.

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FORMATION OF A NEW MODEL OF LABOR AND EMPLOYMENT ON A DIGITAL PLATFORM (CONCEPTUAL ASPECT)

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The article argues that the emerging model of labor and employment in Russia changes the nature of labor and its content, which necessitates the creation of a special digital platform, i.e. a management mechanism saturated with intellectual components, endowed with the ability to predict (to plan) the use of labor resources. It is concluded that the driving force of all digital modifications is Big data management, and, therefore, the educational programs of universities should include the training of managers and teams of CIO managers, as well as specialists from numerous other digital professions.

Keywords: Labor model, employment, concept, project, digital platform, digital technologies, platform solutions, software and hardware complex, educational technology market.

ON THE ISSUE OF RANKING OF SUBJECTIVE RISKS OF DISTANCE EDUCATION IN THE ECONOMIC SECURITY ASPECT OF THE RUSSIAN FEDERATION

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The article considers the issues of ranking the subjective risks of distance education in the aspect of economic security of the Russian Federation. The object of the study was distance education in the Russian Federation, and the object was the subjective risks of its implementation in the aspect of economic security of the Russian Federation. The theoretical and methodological significance of the study is contained in the development of a methodological framework for risk management at the federal level. The practical importance of the study is to increase the level of economic security of the Russian Federation through a detailed analysis of the current situation with distance education in higher education.

Keywords: question, ranking, risks, subjectivity, education, economic security, Russian Federation.

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ASSESSMENT OF INVESTMENT ACTIVITIES OF RUSSIAN METALLURGICAL ENTERPRISES IN 2017–2019

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Within the framework of this scientific article, the analysis of the investment activities of key metallurgical companies of the Russian Federation is carried out. The assessment of financial results in the field of investment activities of metallurgical companies is made. Conclusions are drawn regarding the reasons that influenced the results of investment activities of individual companies of the domestic metallurgical complex.

Keywords: investments, investment activities, metallurgical enterprises, investments in financial assets, investments in tangible assets.

TRENDS AND PROSPECTS FOR THE DEVELOPMENT OF MODERN CONSTRUCTION IN RUSSIA FROM AN ECONOMIC POINT OF VIEW

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The construction market in Russia is currently at the forefront of the EAEU and is one of the fastest growing on the continent. Moreover, all indications are that the sector will thrive in the coming years.

Industry experts agree that the construction market has been experiencing positive dynamics for several months. The number of apartments commissioned is increasing, and additional investments have been launched at the expense of Federal programs. What distinguishes the Russian Federation from other countries is a much larger share of new construction in terms of national investment, while in other EEU countries, the reconstruction of existing buildings takes a much larger share. This phenomenon is related to historical conditions and the current construction boom.

Keywords: modern construction, construction market, construction sector of the economy, innovations in construction.

CREATION EFFICIENT MANAGERIAL SYSTEM BY DEBTOR INDEBTEDNESS ENTERPRISE HOUSING-PUBLIC FACILITIES

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For successful and efficient work enterprise housing-public facilities necessary creation on enterprise managerial system by debtor indebtedness. In article are considered main problems, with which face the enterprises housing-public sphere and are offered recommendations on creation efficient managerial system by debtor indebtedness on data enterprise.

Keywords: housing-public facilities, enterprises ZHKH, debtor indebtedness, managerial system by debtor indebtedness, credit policy, internal checking, ranking debtor.

PROBLEMS IN ASSESSING THE QUALITY OF EDUCATION IN HIGHER EDUCATION IN THE CONTEXT OF THE TRANSITION TO DISTANCE LEARNING IN THE RUSSIAN FEDERATION

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The authors' article gives an overview of the problems of assessing the quality of education in higher education in the transition to distance learning in the Russian Federation. The object of the study was education at a higher school, and the subject — the problems of its assessment in the transition to distance learning. The theoretical and methodological significance of the study is contained in the development of the theory and methodology for assessing the quality of education. The practical importance of the study is to systematize the problems of assessing the quality of education in a higher school of the Russian Federation in the conditions of transition to distance learning.

Keywords: Problems, assessment, quality, education, higher education, conditions, transition, distance learning.

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THE PRINCIPLES OF MODELING PROCESSES IN THE PUBLIC PROCUREMENT SYSTEM OF THE RUSSIAN FEDERATION

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The public procurement system is improved at this moment in the Russian Federation.

An informed choice of suppliers (contractors, implementers) is needed for realization of the public procurement process, so it's expediently to justify using economic and mathematic methods.

The principles are described in this paper have to be based on economic and mathematical modeling of processes in the public procurement system.

Keywords: cost reduction; enterprise management; financial planning; procurements; economic and mathematical modeling; partnership; modeling principles; modeling tasks; forecasting.

APPROBATION OF AN ALGORITHM FOR IDENTIFYING THE MOST PROMISING INNOVATIVE RESEARCH AREAS IN THE FIELD OF HARDWARE DEVELOPMENT OF MEDICINE

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This article is a continuation of the article «Algorithm for the identification of the most promising innovative research areas in the field of hardware development of medicine», published in number 189 of the journal «Economic Sciences» in 2020. In the framework of the previous article, an appropriate algorithm was proposed based on the extrapolation of the properties of the Gartner cycle. In this article, this algorithm is tested and a complex of the most promising research areas in the field of hardware development of medicine is formed.

Keywords: hardware development of medicine, innovative research, medical equipment.

AUTOMATION OF AN ALGORITHM FOR IDENTIFYING THE MOST PROMISING INNOVATIVE RESEARCH AREAS IN THE FIELD OF HARDWARE DEVELOPMENT OF MEDICINE

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This article is a continuation of the article «An algorithm for identifying the most promising innovative research areas in the field of hardware development of medicine», published in number 189 of the journal «Economic Sciences» in 2020. In the framework of the previous article, an appropriate algorithm was proposed based on the extrapolation of the properties of the Gartner cycle. Within the framework of this article, sequential automation of this algorithm is implemented using the high-level Python programming language. The program code presented in this article can be borrowed and used to solve related problems.

Keywords: python, hardware development of medicine, innovative research, medical equipment, lexeme.

MODERN CHALLENGES OF THE BANKING INDUSTRY IN CONSTRUCTION

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The article describes the specifics of project Finance practice in various countries. This financial instrument is a universal means of financing long-term projects of foreign multinational banks. In the context of the economic crisis in Russia and the country's declining attractiveness among potential investors, new tools and forms of attracting investment in strategically important projects are needed. In

this regard, the possibility of adapting this tool in Russia is of great interest.

Keywords: project financing, public-private partnership, investment projects, foreign experience. The construction industry is an important component of the economy of any state. In view of this, the issue of development of this industry deserves special attention. Financing construction projects is often accompanied by a number of problems, especially in countries where the economy is not stable. Today, one of the main tasks of strategic management of the country's economic system is to find sources of financing for fixed capital, because the subjects' own funds are often limited in size. As a result, there is an increase in the popularity of Bank lending as a source of investment in the construction sector.

The article presents an analysis of the current challenges of the banking industry in relation to construction, as well as options for solving the main problems.

Keywords: construction, project Finance, banking industry, economy, challenges of the banking industry, BIM technologies.

FEATURES OF FOREIGN PRACTICE OF PROJECT FINANCING

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Keywords: project financing, public-private partnership, investment projects, foreign experience.

USING VIRTUAL REALITY TECHNOLOGY IN CONSTRUCTION AS A WAY TO SAVE MONEY

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The relevance of the chosen topic is dictated by the rapid development of information technology in all professional sectors, in particular in the construction industry. The article discusses in detail the features of virtual reality, its application in various fields of activity, as well as the advantages of its use in the construction process.

Keywords: virtual reality, VR, construction, economy, technology.

CURRENT TRENDS IN THE US REAL ESTATE MARKET

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Recently, the purchase of real estate in the United States is the most economically attractive type of investment. One of the reasons is the rise in the cost of living. This article discusses the main types of real estate in the United States, describes the main features of the real estate market in America, and analyzes trends in its development.

Keywords: real estate, investment, real estate market, USA.

ECONOMIC ASSESSMENT OF THE USE OF INDUSTRIAL WASTE IN THE PRODUCTION OF ROAD CONSTRUCTION MATERIALS

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The widespread use of traditional stone materials in road construction is constrained by their scarcity and high cost. One of the ways to solve this problem is to use industrial waste modified with stabilizing additives of various nature. As a result of the enterprises' activities, about 1.5 billion tons of ash and slag waste and more than 120 million m³ of crushing plants have been accumulated in the dumps, which leads to changes in the terrain and deterioration of the environmental situation.

In this regard, this article considered the possibility of reducing the cost of road construction materials due to the use of industrial waste in their composition.

Keywords: road construction materials, industrial waste, reduction of the cost of construction materials, economy, production of construction materials.

PROSPECTS AND FEATURES OF THE IMPLEMENTATION OF THE STATE CONSTRUCTION SUPERVISION IN RUSSIA

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During the large-scale increase in the number of construction projects in the current reality of permanent development of large cities in Russia, when compliance with the requirements, conditions, deadlines and standards in the environmental and architectural spheres plays a significant role, solving difficult administrative tasks related to the construction sphere is very important and more relevant than ever. Special attention should be paid to the problem of state supervision of construction. The article considers the specifics of state construction supervision, the legal framework necessary for its implementation, Executive bodies, and development prospects in Russia.

Keywords: state construction supervision, project documentation, inspection, construction, Rostekhnadzor.

WAYS TO REDUCE THE COST OF RECONSTRUCTION OF INDUSTRIAL BUILDINGS

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Today, the reconstruction of industrial enterprises is one of the main factors in solving the problem of industrial backwardness in Russia. Reproduction of fixed assets of industrial enterprises contributes to the growth of industrial entrepreneurship, increasing the competitiveness of manufactured products not only in the Russian market, but also in international markets, which will lead to the economic development of the country as a whole.

The article discusses ways to reduce the cost of reconstruction of fixed assets of industrial enterprises.

Keywords: reconstruction, ways to reduce the cost, construction, economy, industrial buildings.

ANALYSIS OF THE WORLD EXPERIENCE IN USING MORTGAGE BONDS

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The article deals with the essence and distinctive features of the European model of organization of the mortgage securities market. Factors hindering the growth of mortgage lending and securities in the Russian market were identified. a comparative description of the mortgage bond market in Europe and Russia is given.

Keywords: mortgage, mortgage bonds, mortgage securities market, mortgage coverage, mortgage lending.

COMPREHENSIVE ANALYSIS OF THE SHIFTS IN THE INVESTMENT STRUCTURE OF THE FAR EASTERN REGION

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The structure and dynamics of industrial production volumes and the structure of investments in the Far Eastern Federal District are considered. The main areas of investment have been identified and the main investment projects of the region are presented. The integrated shifts in the investment structure have been calculated and analyzed. It is concluded about the trends of the implementation of investment policy and the investment climate of the region.

Keywords: investments, infrastructure projects, integral ratio, structural changes

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MARKETING RESEARCH OF INSTITUTIONAL MECHANISMS OF INTERACTION OF INDUSTRY MARKET AND SPORTS MANAGEMENT

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The relationship (from marketing positions) of the industry market and sports management is shown. A comprehensive approach to marketing research in the field of sports and sports activity has been justified. Special attention is paid to structuring institutional forms of interaction between the industry market and sports management.

Keywords: Marketing, complexity, industry market, sports management, institutional mechanism.

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INFORMATION CAPITAL OF AN ENTERPRISE AS A TARGET FOR DEVELOPMENT WITHIN DIGITAL ECONOMIC SYSTEMS

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The process of digitalization of the economy is extremely complex and leads to transforming of many patterns of interaction between economic entities. As a result of the consistent formation of the digital information environment characterized by a high speed and breadth of information dissemination, the consumption process has significantly transformed, and at the moment the digital information environment is actually a superstructure of existing economic systems, within which complex consumer information

is formed. As a result, mechanisms of reverse action have been formed, in accordance with which the material reality is transformed under the influence of processes that originated in the digital information environment. Thus, within the framework of competitive interaction, the specifics of the perception of an enterprise in the digital information environment by its subjects is gaining increasing influence. The quantitative expression of this perception can be called information capital. Within the framework of this article, the authors develop a tool for assessing this parameter, and also describe the mechanisms of its formation and change over time.

Keywords: information capital, digitalization, digital economic system, tonality, sustainability, information environment.

MODEL OF THE INSTITUTIONAL ENVIRONMENT OF SMALL AND MEDIUM-SIZED BUSINESSES

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The small and medium-sized business sector is one of the backbone sectors in the Russian economy. At the same time, the significance of this sector for the institutional environment is highly differentiated and includes many functions of a social nature. At the same time, the institutional environment of the small and medium-sized business sector is complex, and functions in the context of a multidimensional systemic response to internal and external changes. In this article, the authors propose a model of the institutional environment of small and medium-sized businesses, as well as a mathematical expression of the mechanisms of interaction between its elements.

Keywords: small and medium-sized businesses, SMEs, institutional environment.

CREDIT AS A FACTOR IN THE DEVELOPMENT AND PROVISION OF REPRODUCTION PROCESSES

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The article discusses issues that reflect the role of credit in the socio-economic development of the state. The independence of the category «credit» and the importance of its distributive (redistributive) function have been substantiated. Considerable attention is paid to the credit policy aimed at increasing the availability of credit to business entities.

Keywords: capital, credit, market economy, credit system, credit policy, monetary relations, borrowers, lenders, borrowed funds.

SCIENCE AND EDUCATION INTERCONNECTION AS A FACTOR OF INNOVATIVE ECONOMIC DEVELOPMENT

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The article is devoted to the main problems of the relationship between modern education and science on the way to innovative development of Russian national economy. Concentration of efforts in the field of supporting intellectual capital through cooperative ties of various scientific, educational, governmental and industrial structures is a key area in the context of the global economy digitalization. A special attention is paid to the modern system of higher education, the existing development trends within the Bologna process were analyzed, the main problems of the lack of a full-fledged dialogue between scientific and educational components were indicated. The relationship between science and education is revealed, shown that along with scientific and technological progress, scientific and educational progress also affects innovative economic growth, the author's definition of this term is proposed. The block diagram proposed in the article reveals the main directions of the development of the scientific and educational sphere in Russia. The main methods used in the article are formalization, analysis and synthesis, deductive method. It is concluded that innovative economic development directly depends on the establishment of a system for coordinating science with education, and the existing problems in higher education sphere are a brake on the bonding of such links.

Keywords: scientific and educational sphere, innovative economic development, science and education interconnection, postgraduate studies, intellectual capital, scientific and educational progress.

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AGENCY PROBLEM IN COMPANY'S INVESTMENT ACTIVITIES

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This paper is dedicated to the analysis of agency problem in investment activities of the company. Potential multidirectionality of owners' and managers' interests can lead to rise of agency costs in the sphere. Modern researches are dedicated to looking for mechanisms of decreasing of agency costs in the investment activities of the company. Real options concept is one of such mechanisms and can help in solving the problem of more complete risk management.

Keywords: agency problem, risk management, real options, discount rate, uncertainty.

ABOUT ASSESSMENT OF LEVEL OF INNOVATIVE ACTIVITY OF DIVISIONS OF A HIGHER EDUCATIONAL INSTITUTION IN THE CONDITIONS OF DISTANCE LEARNING

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In the article of the authors, the issue of assessing the level of innovation of departments of a higher educational institution in the conditions of distance learning is considered. The object of the study were units of a higher educational institution. The subject is the level of their innovation in the conditions of distance learning. The theoretical and methodological significance of the study is reflected in the expansion of the theory and methodology of managing innovation in the field of education. The practical significance of the study is the modernization of the application of approaches to assessing the level of innovation of actors.

Keywords: Evaluation, level, innovation, division, higher education institution, condition, distance learning.

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COMPARATIVE ANALYSIS OF INDUSTRIAL POLICIES OF SUBJECTS OF THE VOLGA FEDERAL DISTRICT

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The problem of increasing the efficiency of the Russian economy is inextricably linked with the correctness of the formation and implementation of industrial policy at various levels of government. The article presents the results of the analysis of industrial policies of the constituent entities of the Volga Federal District on the basis of industrial development indicators, identified problems and formulated recommendations for their solution.

Keywords: industrial policy, Volga Federal District, high-tech products, region

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TRANSFORMATION OF THE INSTRUMENTS OF THE STATE REGULATION OF THE MODERN ECONOMY, TAKING INTO ACCOUNT THE CONTRADICTIONS OF GLOBALIZATION PROCESSES

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The article analyzes the alternative approaches to the interpretation of the content of globalization processes. The study revealed the inconsistency and the dual nature of their impact on the directions and dynamics of socio-economic development of various states and the world economy; it is proved that at the turn of XX–XXI centuries, the forms of implementation of globalization processes are radically changing under the influence of crisis phenomena; it is determined that in the conditions of the interdependence of the subjects of the world economic relations, the formation of a multipolar economic space leads to the change in the sources of the competitive potential of individual producers and the territories of their location. It is concluded that the effectiveness of the state regulation of the economy is determined by the completeness of the accounting for the processes of globalization and localization. Understanding the

changes in the composition of the sources and consequences of globalization processes allows us to expand our understanding of the composition of the factors in the socio-economic development of modern states.

Keywords: Globalization, localization, world economic space, competitive advantages, economic and health crisis, factors of economic growth, state regulation of the economy.

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