

## ABSTRACTS

### SECTION I. ECONOMIC-MATHEMATICAL MODELING

#### Discrete control of functional differential continuous-discrete system

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Dynamic models under consideration cover a wide class of models in mathematical Economics and Ecology taking into account some aftereffects and including equations with both continuous and discrete times. Control problems are considered in a general case when the aims of control are given by a system of linear functionals with an arbitrary number of functionals. Complete description of all control actions that solve the control problem is given for the case when only discrete control is applied.

*Keywords: economic dynamic models, control problems, hybrid systems.*

#### About a model of estimating banks default risk using neural network methods

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A model of estimating banks default (license revocation as a result of poor finance or breaking Central Banks standards) risk is considered on the base of financial statements submitted to the Central Bank. The model is constructed using neural network. In the article, the methods of data prep-

aration, improving the accuracy of modeling - clustering, removal of "noise" and conflicting data are discussed.

*Keywords: banking system stability, banking regulation, default, neural network, clustering.*

### SECTION II. ECONOMIC POLICY

#### Cyclic influence on savings behaviour of households in Russian economy

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In the article it has analyzed fundamental regularities in savings behavior of households at different phases of economic cycle in Russia during 1992-2011. In the research the author has distinguished peculiarities of the structure of savings at the phase of economic growth and during economic crisis. The author has analyzed the marginal propensity to save and the disposable income elasticity of savings.

*Keywords: household savings, the cyclical development of the economy, the marginal propensity to save.*

#### Structural and technological heterogeneity of the economy as a factor of the specific organization of production in the Russian industry

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The article discusses the effect of structural and technological heterogeneity of the Russian economy on the characteristics of the organization of production. Based on a comparative analysis of the specific organization production in the Russian industry in the different periods of work with NF Czarnowski as a source of information about the historical features of the organization of production in the early 20th century. It is concluded that it is

the structural heterogeneity of economic and technological causes these features.

*Keywords: industrial engineering, structural and technological heterogeneity of the economy, industry, manufacturing resources, equipment, and technical level.*

## Formation of a single eurozone financial system: state and development scenarios

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The institutional prerequisites for the formation of a unified euro area financial system at the present stage of economic development of the European Union and the reasonably possible scenarios for future development based on existing trends have been described in the article. The role of the European Central Bank in the anti-crisis management has been highlighted. The conclusions are based on statistic data presented as of the period of 2000 – 2011.

*Keywords: eurozone, eurosysteem, Europe central bank, financial and credit policy.*

## SECTION III. REGIONAL ECONOMY

### The role of the regional agro-industrial complex in the formation of the food supply in the context of Russia accession the WTO

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Considered significant for the country's food security problem of food insecurity and the need for a regional food stocks at the expense of domestic producers. Defined the role of agro-industrial complexes over the country and the factors determining their performance and prospects. The main problems of the agricultural sector in the WTO, and the ways to solve them as areas of state support, the formation of food supply, use and update.

*Keywords: regional agriculture, food security, food supply, the government, the World Trade Organization, the regional agricultural and food policy.*

## Study of recurrent interrelations of technological and structural cycles

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In work the methodology of research of recurrent interrelations of production and structural cycles is presented. In article it is proved that production and structural cycles are one-serial, i.e. can be characterized by existence of straight lines and the inverse recurrent relationships. On the basis of what the system of universal indicators on the basis of systematization of the indicators characterizing structural changes in branch and territorial structuring national economy is developed. By results of the complex analysis of statistics features of modern changes in branch structure of the Ural macroregion are revealed.

*Keywords: intercycle recurrentness, structural cycle, structural changes of economy.*

## SECTION IV. INVESTMENT POLICY

### Credit scoring as a system of analysis of small business lenders

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In the article the authors analyze applicability of credit scoring to the analysis of small business lenders. Assessment of main advantages and limitations is carried out.

*Keywords: credit risk, scoring model, credit scoring, small business lending.*

## Method of analysis of investment projects bank for project financing

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The paper presents current methods of analysis of investment projects for the bank project financing, built in accordance with modern practical approaches for consideration and evaluation

*Keywords: project finance in the bank, the analysis of investment projects, the methodology.*

## SECTION V. AGRICULTURAL SECTOR DEVELOPMENT

### Sustainable development estimation Beet-sugar manufactures

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In article features of development sugar-beet manufactures are considered, conditions of steady and effective functioning sugar-beet manufactures are defined, the technique of an estimation of a sustainable development sugar-beet manufactures is offered.

*Keywords: sugar-beet the manufacture, steady developments, a technique of an estimation of stability sugar-beet manufactures.*

## SECTION VI. MANAGEMENT QUESTIONS

### Crosscultural aspects of management: ethics and psychology

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The article analyses and estimates the corporate culture of a company from a position of application of the basic models of cross-cultural management. Also the article determines the possibilities and the conditions to form the cross-cultural capital in the modern large companies.

*Keywords: crosscultural management, cross-cultural capital, corporate culture.*

### Competitive potential economic entities and management

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The paper attempts to generalize and disclosure of the nature of factors that contribute to the competitiveness of economic entities. Special attention is paid to the influence of vzaimonapravlennomu result of the investment Project Types, and financial capacity of the entity to increase its competitiveness. Made a reasoned conclusion that the overall competitive potential of the entity primarily affects its main part - financial and investment potential.

*Keywords: competitiveness, competitive factors, the financial attractiveness of debt financing.*

## SECTION VII. TAX ACCOUNT

### Modern problems of tax accounting of innovative activity at national research universities

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The article considered standard and legal regulation of tax accounting in the Russian Federation for the purpose of identification not adjusted tax accounting questions of innovative activity. Author offered directions for development of tax legislation standards concerning questions of tax accounting of innovative activity, including national research universities.

*Keywords: tax accounting, innovation activity, accounting policy on tax accounting and taxation, research engineering and experimental development.*