

**ABSTRACTS****SECTION I. ECONOMIC-MATHEMATICAL MODELING****On the homogeneous boosted ensembles in application to classification of imbalanced data**

**V.N. Nikulin, Doctor of physical and mathematical sciences, Associate Professor, Department of Mathematical Methods in Economics**

E-mail: [vnikuln.uq@gmail.com](mailto:vnikuln.uq@gmail.com)

**S.A. Palesheva, Applicant, Department of Mathematical Methods in Economics**

E-mail: [svetlanka-pluha@yandex.ru](mailto:svetlanka-pluha@yandex.ru)

**D.S. Zubareva, Applicant, Department of Mathematical Methods in Economics**

E-mail: [ZubarevaDasha@yandex.ru](mailto:ZubarevaDasha@yandex.ru)

Vyatka State University, 610000, Kirov, Moscow str., 36

The paper presents results based on the data used by the international competition to analyze data at the conference PAKDD-2007. Data for the competition were prepared and provided by the consumer finance company in order to find the best solutions to the problem of cross-selling. In addition, we examined two other competitions on the platform of Kaggle, which also have a financial interpretation.

*Keywords: ensemble classifier, gradient-based optimization, boosting, random, forest, decision.*

**Development methods portfolio management based on a new model class market and market relations**

**I.R. Winokur, Tehnichskih Ph.D, Associate Professor, Department of Economics and Enterprise Management**

E-mail: [innavinokur12345@mail.ru](mailto:innavinokur12345@mail.ru)

**V.A. Kharitonov, Tehnichskih Ph.D, Professor, Head Department of Construction Engineering and Materials**

E-mail: [nedstf@pstu.ru](mailto:nedstf@pstu.ru)

**R.M. Mahles, Associate Professor, Vehicles and Technological Machin Department**

E-mail: [makhlesf@pstu.ru](mailto:makhlesf@pstu.ru)

National Research Polytechnical University of Perm, 614990, Perm, Komsomol prospect, 29

Based on an analysis of known methods of portfolio management and output of the possibilities of their development, a new class of models of markets and market relations.

*Keywords: portfolio, portfolio management, the preferences of market participants, the life cycle of the asset, the analysis model portfolios, positioning control product on the market, the market mode.*

**SECTION II. ENTERPRISE ECONOMY****Organization of designing, innovative development of the intraproductive “commercial calculation”**

**T.G. Sheshukova, Doctor of Economics, Professor, Head of Accounting, Audit and Economic Analysis Department**

E-mail: [sheshukova@psu.pu](mailto:sheshukova@psu.pu)

Perm State National Research University, 614990, Perm, Bukireva str., 15

In the article the essence of the organization of designing, formation or development of innovative intraproductive “commercial” calculation, the main work packages and stages are considered.

*Keywords: the intraproductive “commercial” calculation, object, subject, pre-operation, introduction, explanatory note, innovations.*

**Institutionalization of sustainable development of industrial enterprises**

**T.V. Alferova, Doctor of Economics, Associate Professor, Head of Management Department**

E-mail: [atw-36@rambler.ru](mailto:atw-36@rambler.ru)

Perm Institute of Economics and Finance, 614000, Perm, Bolshevitskay, 141

The article analyses the problems of sustainable development of industry in the light of institutional arrangements for managing «green economies». International cooperation designed to foster the sustainable development of such national efforts and complement. Result of institutional change must be balanced economic growth and preserving the natural potential.

*Keywords: sustainable development, infrastructure, industrial enterprises, economic growth, resource conservation, innovative technology, UN.*

## The basic directions of increase of profitability of the industrial enterprises in Russia

**M.V. Charaeva, Doctor of Economics, Associate Professor, Department of Corporate Finance and Financial Management"**

E-mail: [mvcharaeva@mail.ru](mailto:mvcharaeva@mail.ru)

Rostov state economic university, 344019, Rostov-na-Donu, Murlucheva, str., 50.

In article the interrelation and interdependence of the factors influencing possibilities of increase of profitability of the industrial enterprises is opened, reserves of its growth, and also directions of the influences which use in aggregate will result not only in profitable functioning of the Russian industry, but also growth of the Russian economy as a whole are defined.

*Keywords: profit, profitability of the enterprises, financial results, growth reserves.*

## The method of formation and to determine the preferences of strategic directions of development of industrial enterprises

**E.K. Klyuchnick, Postgraduate, Department of Computer and Business Economics and Mathematical Methods**

E-mail: [yk-diss@mail.ru](mailto:yk-diss@mail.ru)

Far Eastern Federal University, 690091, Vladivostok, Suhanova str., 8.

The article attempts to disclose aspects of formation of the strategic directions of development of the company, proposed method of determining in their implementation as part of a comprehensive strategy.

*Keywords: strategy, development trends, management techniques, selection criteria.*

## SECTION III. REGIONAL ECONOMY

### Methodology of integral estimation of national research university's innovation development

**T.V. Mirolubova, Doctor of Economics, Associate Professor, Head of Department of World and Regional Economics**

E-mail: [mirolubov@list.ru](mailto:mirolubov@list.ru)

**L.O. Solomatova, Assistant, Department of World and Regional Economics**

E-mail: [solomatova.lada@yandex.ru](mailto:solomatova.lada@yandex.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The article reveals the results of integral estimation of university's innovation development on the example of Perm state national research university. We have elaborated a system of indicators for the estimation of innovation development in the three main spheres of university's activity – educational, scientific and research, innovation and entrepreneurial spheres. The article presents the results of calculations, made with charting method and adjusting the innovation development level of Perm University as "average" as compared with the reference values.

*Keywords: regional innovation policy, innovation economy, national research university, method of evaluation of innovative development.*

### Buildup of innovative infrastructure of university as part of regional innovative system

**P.A. Sukhanova, Senior lecturer, Department of World and Regional Economics**

E-mail: [polina-suh@yandex.ru](mailto:polina-suh@yandex.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The topical issue of the article is the development of the innovative infrastructure of the university in Russian Federation. Thereupon the concept and the value of the innovative infrastructure of the university and regional innovative system are examined. In the article the issue of the development of the innovative infrastructure of the university that influences on the pace of development of the regional economy is arisen.

*Keywords: process of innovation, innovative infrastructure of the university, regional innovative system, efficiency criteria of the innovative infrastructure of the university.*

## Economic development of the region taking into account of cluster's development approach in a city economy contex

**A.V. Pogonin, Assistant, Department of World and Regional Economics**

E-mail: [avpogonin@gmail.com](mailto:avpogonin@gmail.com)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The article is devoted to definition of major factors of development of the region, taking into account a key role of the cities and clusters. The questions connected with identification of a place of the cities in hierarchy of territories is considered. The author's model of a cluster is offered.

*Keywords: advantages and disadvantages of the cluster approach; assessment of clustering in different countries; the factors of economic development; the city's economy; the principle of the "triple helix".*

## Study cyclical process Russian economy based between cyclic recurrence

**O.V. Butorina, Doctor of Economics, Associate Professor, Department of World and Regional Economics**

E-mail: [ok.butorina@yandex.ru](mailto:ok.butorina@yandex.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

**E.V. Batalova, Doctor of Economics, Associate Professor, Department of World and Regional Economics**

E-mail: [ket@pstu.ru](mailto:ket@pstu.ru)

Western-Ural Institute, 614000, Perm, Sibirskaya str, 35 d

**Y.S. Fukalova, Master, Department of Economic Theory**

E-mail: [julechka2009@yandex.ru](mailto:julechka2009@yandex.ru)

National Research Polytechnical University of Perm, 614990, Perm, Komsomol prospect, 29

The paper presents the researching methodology for social reproduction cyclic processes, taking into account intercyclic recurrence property. On this base direct and inverse dependencies between the major cycles were selected, determining the "face" of modern social development. System of indicators characterizing the complex features of cyclic processes in innovative, investment, technological, technical, industrial, social and structural components of the public development has been proposed on the basis of these.

*Keywords: Intercyclic recurrence property, indicators of the cyclic processes features in frames of innovative, investment, technological, technical, industrial, social and structural components of social development.*

## SECTION IV. BANKING SYSTEM

### Need and ways to improve the status regional bank in the Russian banking system

**E.B. Nikitina, Doctor of Economics, Associate Professor, Department of Accounting, Audit and Economic Analysis**

E-mail: [enika11@yandex.ru](mailto:enika11@yandex.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The problem of preserving regional banks discussed in the article, the existence of which is threatened due to the requirements of the Central Bank of the Russian Federation. The role of banks is defined in the regional economy and is marked by their specificity. Association of Regional Banks of Russia has set the status of the regional banks - small and determine the conditions of their work. The analogy of foreign practices presented in the paper. Direction of the interaction of regional banks and regional administration marked.

*Keywords: regional bank, a small bank, the competitiveness of commercial banks, the banking community, the region's economy, the interaction of banks and governme.*

## SECTION V. TAX POLICY

### Tax proceeds dependence on taxable load on basis of the effect of the Laffer

**L.R. Strugova, Head of the Federal Tax Service in the Perm region, Counselor of state Russian Federation 3 class.**

E-mail: [59@r59.nalog.ru](mailto:59@r59.nalog.ru)

Office of the Federal Tax Service of the Perm region, 614990, Perm, Okulov str., 46

The problems related to the study of practical application of the law of Arthur Laffer of the special tax revenues based on the total tax burden. Based on the analysis of the experimental results in

the field of taxation, held in the Perm region, as well as the practical experience of the regional tax authorities in 2006 - 2011 years, provided the rationale for excluding tradeoff Laffer some relatively subjective factors, including the current system of tax administration, the level of tax culture and others.

*Keywords: the Laffer curve, corporate income tax, Perm experiment taxation system tax administration, tax culture.*

## SECTION VI. FORENSIC ACCOUNTING

### Methodological errors of forensic accounting

**T.V. Pashchenko, Doctor of Economics, Associate Professor, Department of Accounting, Audit and Economic Analysis**

E-mail: [paschenko@econ.psu.ru](mailto:paschenko@econ.psu.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The questions of the formation of the production techniques of forensic accounting expertise. Set range of errors that can be committed by an expert and which may later affect the reliability of expert opinion as evidence in court. In the end, the article sets out lines of methodical evaluation of expert opinions.

*Keywords: the financial control, forensic accounting, technique of expert research, methods of research.*

## SECTION VII. REFORMING REPORTING

### Adaptation of system of internal control at implementation of the foreign trade activity to requirements of the international registration practice

**O.A. Rybalko, Doctor of Economics, Associate Professor, Department of Accounting and Audit**

Perm State Agricultural Academy named after Academician D.N. Pryanishnikov, 614000, Perm, Petropavlovskaya str., 23

E-mail: [rubalkohome@yandex.ru](mailto:rubalkohome@yandex.ru)

Genesis of concepts of internal control in the international practice and Russia is considered. Features of the organization of internal control are allocated and characterized at implementation of the foreign trade activity, the form of system of the internal control, answering to specifics of the foreign trade activity is offered.

*Keywords: internal control, foreign trade activity.*

### The question about concept of “simple group” and “complex group” in international financial reporting standards (IFRS)

**M.A. Gorodilov, Doctor of Economics, Associate Professor, Department of Accounting, Audit and Economic Analysis**

E-mail: [gorodilov59@yandex.ru](mailto:gorodilov59@yandex.ru)

**O.A. Fetisova, Postgraduate, Department of Accounting, Audit and Economic Analysis**

E-mail: [fetisova.olishna@gmail.com](mailto:fetisova.olishna@gmail.com)

Perm State National Research University, 614990, Perm, Bukireva str., 15

Research defines an essence of concepts “simple group of companies”, “complex group of companies”, “complex vertical group of companies”, “complex mixed group of companies” in accordance with IFRS during the preparation of the consolidated financial statements. Types and nature of links between the companies within the consolidation perimeter are also identified which are based on the concept of control according to IFRS 10 “Consolidated Financial Statements”. Author’s definitions of such elements of group structure as “vnuchataya company” and “pravnuchataya company” are propounded.

*Keywords: international financial reporting standards; consolidated financial statements; complex group of companies; simple group of companies; consolidation of complex groups according to IFRS; parent company; subsidiary company; vnuchataya company; pravnuchataya company; a concept of control in IFRS.*

## SECTION VIII. ECONOMIC POLICY

### In the territori integrated assessment of the balanced structure of the reproduction processes

**Y.A. Malyshev, Doctor of Economics, Professor, Head of Department of Economic Theory and Industrial Markets**

E-mail: [urmal@dom.raid.ru](mailto:urmal@dom.raid.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

**O.N. Kazmalova, Applicant, Department of Finance and Credit**

E-mail: [Kaolni76@mail.ru](mailto:Kaolni76@mail.ru)

Financial University on Government RF, Perm Office, 614077, Bulvar Gagarina, 50.

The content of the article. In the article reproduction processes in the region are studied and assessed in the reproduction proportions with the use of the researched integral coefficients of their position in the region. The most valuable resources of the gross regional product in Perm, Chlyabinsk, Sverdlovsk, Samara, Nizhniy Novgorod regions, the Bashkortostan and Tatarstan republics are analyzed. The reproduction structural proportions, the dynamic of their development are also defined for these regions. The critical assessment of their state in Perm kray is given in the article. The hypothesis of the priority of the balanced structure of reproduction process is proved.

*Keywords: balanced development, resources, the integrated assessment of the reproduction process state in regions, coefficient of concordance, direct and integral coefficients of the reproduction proportions in the Regions, reference model, maximum and minimum level meanings of reproduction proportions in competing regions.*

## SECTION IX. INVESTMENT ACTIVITIES

**State support of investment projects at the regional level as a through promotion of investment in the timber industry (on the example of Perm Region)**

**K.V. Novikova, Doctor of Economics, Associate Professor, Head of Marketing Department**

E-mail: [ksenia--27@yandex.ru](mailto:ksenia--27@yandex.ru)

**N.N. Kosvintcev, Assistant, Department of Marketing**

E-mail: [aic-business@mail.ru](mailto:aic-business@mail.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The necessity of state support timber industry as socially important sector for the "forest" of the Russian Federation, and also proposes a mechanism subsidy costs, stimulating investment activity of businesses and increase the investment attractiveness of the industry.

*Keywords: timber industry, Perm region, state support, investment projects, investment.*

## SECTION X. POTENTIAL OF THE REGION

**Human potential of the region with inter specific recourse**

**E.V. Chuchulina, Doctor of Economics, Senior lecturer, Department of World and Regional Economics**

E-mail: [chuchulina.ekaterina@yandex.ru](mailto:chuchulina.ekaterina@yandex.ru)

Perm State National Research University, 614990, Perm, Bukireva str., 15

The relationship of human development and economic success of a single entity - the region is evident. The main source of competitive human development at the present stage of development of society is the creative aspect (interspecific recourse) of economic activity. Interspecific resource - a resource that has the people, creativity, and the maximum value is attained only in the individual.

*Keywords: human potential, human potential of the region, interspecific resource, creative economy and creative potential.*