ABSTRACTS

STATISTICS AND INFORMATIZATION OF SOCIETY

N.I. Pashintseva «Official statistics - an essential element of information system of democratic society»

Keywords: official statistics, informational system, internet-technologies, visualization tools.

Considered are improvements of communication with users due to the implementation of modern technologies, Internet and visualization tools. Contacts of the statistical service with mass media, results of pilot sample surveys of the users of statistical information held to establish «feedback channel» between public authorities and society are commented.

V.M. Zherebin, N.A. Ermakova «Informatization of population every-day life»

Keywords: informatization, information and communication technologies, every-day life, social consequences.

During recent years as a result of the wide use of computer technology and mobile communication, implementation of renewed hardware and software tools and introduction of digital data processing, information and communication technologies in our country have turned (beyond industrial and economic activities) to support population every-day life. Processes of informatization began to affect social behavior and life way of practically every Russian family. The article focuses on the basic impact of informatization on every-day life of population and estimation of its positive and negative social consequences.

STUDY OF SOCIAL AND DEMOGRAPHIC PROCESSES

O.V. Kuchmaeva, O.L. Petryakova «Birth rate differentiation in Russia: the role of demographic and social factors»

Keywords: birth rate, factors of birth rate, demographic politics, birth rate index, birth rate dynamics, birth rate differentiation.

The article focuses on the current stage of birth rate analysis in Russia. This analysis is based on the use of actual statistical data. Factors influencing birth rate (fertility) are examined using several statistical methods, including correlation, regression and index analysis and then current demographic policy of the country is evaluated. Attention is given to the studying of regional inhomogeneity of the birth rate changes by means of cluster analysis.

S.D. Ilienkova, A.D. Popov «Factors contributing to high-tech medical service development»

Keywords:, public health, availability of high-tech.

One of countries innovative policy priorities is the development of medical technologies. This article considers the analysis of medical science innovative capacity, terms of high medical technologies accessibility.

T.N. Belova «Traffic accidents statistics in the context of the national idea»

Keywords: national idea, traffic accidents statistics, quality of motor roads, road construction financing.

The article examines the sad statistics of dead in the traffic accidents in Russia. Authors' attention is concentrated on economic factors: density and quality of motor roads, financial issues, problems of motor car adequate supply, etc. Foreign countries indices are compared to statistical data of Russia and its regions.

MATHEMATICS AND STATISTICAL METHODS

A.M. Ilyshev, O.M. Shubat **«Multidimential classification of data: methods, analysis of practice and perspectives of implementation»**

Keywords: cluster analysis, logistic regression, discriminate analysis, multivariate data classification, hierarchical cluster analysis, k-means method.

The article discusses the application of multidimential methods of analysis for economic and statistical researches. Methodological aspects of multivariate data classification, presented by cluster analysis, discriminate analysis and logistic regression are reviewed. The article provides an overview of publications which covered these types of analysis (including those published in «Statistical Studies»). Content analysis of such publications made it possible to compile their summary and reflect the growing popularity of multidimential methods among professional statisticians and analysts.

L.L. Nikitin **«Implementation of the cluster analysis for commercialization of innovative technologies studies»**

Keywords: innovation, business model, cluster analysis, high-technology industries, aerospace industry, information and communication technologies, biopharmaceuticals, biotechnology, post-industrial economy, intellectual property management.

For the development of technological innovations it is essential to ensure competent and modern commercialization within the framework of balanced business models. Multifactor cluster analysis of business models of contemporary high-technology companies and industries shows that the most effective commercialization emanate in the framework of four basic models. Company's profitability does not depend directly on the level of its technologies, but is determined by the quality of these business models. Besides trends in high-technology industries demonstrate raising segmentation and differentiation of markets and more frequent utilization of value network models.

V.G. Kulakov, V.L. Lazarev, V.A. Phedulin **«Entropic models for the social systems study»**

Keywords:: social policy, demographic situation, theory of entropy potential.

Authors carried out the study of fertility by mother age groups in Tver region with the use of methodology based on the theory of entropy potentials. Demographic trends forecasts were performed and respective recommendations are given in the article.

E.N. Grishina, I.P. Lapteva, L.N. Trusova **«Implementation of nonparametric methods of correlation research for personnel assessment technology»**

Keywords: motivation to success, coefficient of mutual conjugacy, Kendall rank correlation coefficient.

The article focuses on implementation of nonparametric association methods, using the estimation of human resources as the case study. To measure the links between attributes Pearson and A.A. Chuprov coefficients of mutual conjugacy, Kendall rank correlation coefficient were used, that made it possible to establish the connection between them and to measure its tightness.

IN THE SYSTEM OF STATE STATISTICS

G.I. Chudilin **«Population census as a tool for estimation of social and economic system stability: the regional aspect»**

Keywords: social and economic system stability, integral indicator of stable development, population census, demographic trends, «human capital».

Article characterizes the role of population census as the information platform for governmental decision makers to ensure the sustainability of social and economic system development. Author shows possibilities of statistics for reflecting

professional and labour sphere trends, tendencies in labour market and oversupply of certain professions (occupations) as well as for the adequate depiction of the level of population welfare, that is essential for the development and realization of social programs (case study: Samara region).

O.A. Loseva, M.M. Chernyshova **«Chelyabinskstat's experience of vital statistics data collection and processing»**

Keywords: electronic document, primary information on vital statistics, registration, records of births and deaths.

The experience of the Federal State Statistics Service territorial body of Chelyabinsk region (Chelyabinskstat) to organize electronic document turnover, management and processing of «de-personified» primary data on vital statistics are described in this article. The registration process of population movement, the method of acts of births and deaths registration and processing have been totally rearranged and innovated. The quality, type and terms of data collection and processing are improved due to modern technology and also in line with the current legislation. Essential conditions for the implementation of this approach are readiness and willingness of Civil Status Registration Office (ZAGS) to cooperate with statistical offices (as well as the availability of respective hardware and software).

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