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**O.V. Firsanova, S.M. Gazul, S.A. Stepanov, N.G. Khimicheva**

**NATIONAL SYSTEM OF QUALIFICATIONS AS A SPHERE OF INTERESTS OF  
EDUCATIONAL ORGANIZATIONS AND EMPLOYERS**

**Abstract.** In the Russian economy today there are radical changes in the forms and pace of life. One can observe a significant acceleration of the change in production and consumption technologies, a reduction in the periods of sustainability of production models, a general “digitalization” of processes, a complication of the forms of labor activity, etc. One of the processes associated with these changes is the formation of the National System of Qualifications.

**Keywords:** National System of Qualifications, professional and public accreditation, independent assessment of qualifications, qualifications, additional education, continuing education, long-life learning.

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**M.Y. Koksharova, A.A. Nazarov**

**ON THE QUESTION ABOUT INTRODUCTION OF NEW PROFESSIONAL  
QUALIFICATION STANDARDS OF EMPLOYEE**

**Abstract.** The article is devoted to the urgent issue of the transition to new professional standards of qualification of employees, reveals the prerequisites for the implementation of these standards and considers certain issues of the transition to these standards on the example of one of the largest Russian instrument-making enterprises.

**Keywords:** New professional standards for employee qualifications, job descriptions, labor market, labor potential, efficiency

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**I.V. Batarin, I.V. Kruglova**

**CORRELATION ANALYSIS IN THE RESEARCH OF CONNECTION BETWEEN  
THE STANDARD OF LIVING AND THE INNOVATIVE CLIMATE LEVEL  
OF THE COUNTRY**

**Abstract.** The standard of living is affected by a multitude of economic factors. This article describes the use of correlation analysis to study the relationship between the standard of living and the innovative climate level of the country. According to the results of the study, authors made statements about the existence of a relationship between the standard of living and the state of the country's innovative sector.

**Keywords:** correlation analysis, relationship, dependence, standard of living, innovation, significance of the model, labor productivity.

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**I.B. Petrosyan, L. K. Sargsyan**

**POPULATION MIGRATION  
IN THE CONTEXT OF MEGAECONOMICS PROCESSES**

**Abstract.** Over the past fifty years, the pace of international migration has accelerated: migrants are moving ever further away, migration has become more diverse in terms of the origin and destination of migrants. This paper conducted to analyze the main migration flows, the causes and prerequisites of the labor movement and to demonstrate the existing relationships in this area.

**Keywords:** international migration, megaeconomic processes, megaeconomics, labor force, population.

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N.I. Sinitsyna

**ANALYSIS OF THE SPORTS ARBITRATION COURT (CAS)  
OF THE PROVISIONS OF CONTRACTS ON THE TRANSITION  
OF A FOOTBALLER ON THE RIGHTS OF RENTS IN THE CONTEXT  
OF THE RIGHT OF CLUBS TO RECEIVE COMPENSATION  
FOR PREPARATION AND TRAINING**

**Abstract.** This article considers the legal positions of the Court of Arbitration for Sport (CAS) regarding the transfer of a football player on loan to another club, the application of the principle of "rent segmentation", which should be used only in cases of a valid lease of a professional player. Thus, the article touched upon the issues of determining the status of a football player: a professional player or amateur, as well as the legal consequences of owning one of two statuses.

**Key words:** player status, professional footballer, amateur footballer, practice of the Court of Arbitration for Sport, CAS, compensation for the preparation and training of a footballer, transferring a player on loan.

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S.L. Khantarjyan

**NORMALIZATION OF OPTIMALITY CRITERIA FOR OPERATION MODES  
OF CHEMICAL AND TECHNOLOGICAL SYSTEMS**

**Abstract.** A comparative analysis of the optimality criteria of many tonnage chemical technological systems (CTS) is carried out in the article. The results of work on optimizing the technical and economic indicators of chemical reactors, which are the leading links in the operation of these systems, were previously published by the author. The choice of the optimal operating mode of the reactor compartment was carried out using the algorithm for normalizing the optimality criteria developed for the case when the variation intervals of these criteria are known.

**Keywords:** optimization of CTS, normalization of heterogeneous performance indicators of the reactor compartment

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S.A. Kartusova

**OPTIMIZATION OF PERSONAL DATA PROCESSING USING CHIPS**

**Abstract.** Analysis of personal identifiable information is given in the paper. It was structured input and output data, the ways of the database information visualization for different types of institutions were suggested. It was concluded that the designed database and created algorithm would enable to advance the accessing to the personal identifiable information, the searching for the information, data processing and data protection.

**Keywords:** Personal data, identifiable information, chip, optimization of database work, information system.

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A.S. Bobova, S.G. Kvekveskiri, Ya.V. Shokola Ya. V.

**EXPLORING CHINA**

**Abstract.** The article is devoted to the study of the research and educational process in one of the largest universities in China. Familiarity with the culture, history, educational and scientific experience of modern China has laid quality springboard for the future of close international collaboration. The experience of the teaching staff in the processes of research and educational activities at Tsinghua University as part of an international internship is studied.

**Key words:** China, Tsinghua University, new educational borders, collaboration.

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