

# Pedagogical Sciences

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## **Shortage of Adequate Internalization of Parental Surrogates by Addicts**

*Keywords:* addict; internalization; mother fixation.

*Abstract:* The paper analyzes the risk factors of an individual's addiction to psychoactive substances, the etymology of addictive behavior associated with the peculiarities of personal development and the quality of the relationship with the primary object (the mother) in early childhood. Traditional and contemporary psychoanalytic views are fundamental for the analysis in this study addictiveness.

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*N.A. Korneeva*

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## **The Role of Authentic Texts in Professional Training of Future Linguists and Translators**

*Keywords:* authentic text; linguists and translators; translation practice; professional training; socio-cultural competence; socio-cultural approach.

*Abstract:* The article considers the essence of the main concept "authentic text". The author defines the types of authentic texts, their features, the main requirements based on the socio-cultural approach which enhance the development of socio-cultural competence and intercultural communication of future linguists and translators; the development of socio-cultural competence is the basis of professional training of future translators.

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## **Organization of Future Teachers' Training for Pedagogical Partnership Interaction with Parents of Schoolchildren**

*Keywords:* educational levels; partnership pedagogical interaction; technology of working with schoolchildren's parents; special course; functions of preparation for partnership pedagogical interaction.

*Abstract:* The article explains the role of the special course, enhancing the development of future teachers' readiness for partnership pedagogical interaction with schoolchildren's parents. The features of training, as well as the ways of its implementation at the technological and creative educational levels have been identified.

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*A.K. Mazina*

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## **Dynamics of Author Intervention Program in Children with Symptoms of Attention Deficit Hyperactivity Disorder**

*Keywords:* attention deficit disorder and hyperactivity; characteristics of attention; preschoolers; children; study of children.

*Abstract:* The article is devoted to the study of dynamics of attention in hyperactive children with attention deficit, changes in behavioral and emotional characteristics as a result of the author's intervention program. The article focuses on diagnostic tools, specially selected and created by the author for the study of children with specified symptoms, positive dynamics of the studied features as a result of the author's intervention program.

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## **Analysis and Problems of Educational Process Organization in Physical Training of Agriculture Students at University**

*Keywords:* higher educational institutions; motivation; professional work; sport; students; educational process; physical training; physical culture; physical fitness.

*Abstract:* The paper considers problems of physical training of agriculture students at higher education institutions. The survey on motivation of agrarian university students for physical training and sport is analyzed.

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*L.E. Tarasova*

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**Adaptation Readiness: Definition of the Term**

*Keywords:* adaptation; adaptation readiness; adaptive capacity, pre-adaptation; psychological readiness; attitude.

*Abstract:* The paper explores interaction as a central category of the theory of adaptation, conditions for successful adaptation, mechanisms of adaptation; the link between the concepts of adaptation and attitude has been established. Adaptation is regarded as a necessary mediating link between the external environment and mental activity of an individual; it is understood as readiness for activity. The author examines the concept of readiness (disposition) and pre-adaptation based on anticipation of a problem situation; the concept of adaptation readiness is defined; considered its structure is analyzed.

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## Historical Sciences and Archeology

*M.I. Kuznetsova*

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**Multiculturalism and National Characteristics of Architecture of Russian and Spanish Art Nouveau**

*Keywords:* Art Nouveau; multiculturalism; architecture; philosophy; oriental culture.

*Abstract:* The paper discusses the social causes of Art Nouveau emergence and its manifestation in architecture of Russia and Spain in the late 19th and early 20th centuries. It analyzes the common features of European Art Nouveau and national historical and cultural traditions of Russian and Spanish Art Nouveau. For example, the architecture of Spain and Russia shows multicultural characteristics typical of Art Nouveau.

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**The Entry of the Crimea in Russia in the Context of Control over Conventional Armed Forces in Europe**

*Keywords:* armed forces; Black Sea region; conventional security in Europe; Crimea; group; militarization; military unit.

*Abstract:* The purpose of this article is to review the situation in the Crimea from the military and political perspectives in the context of conventional security in Europe. The article gives a qualitative and quantitative characterization of Armed Forces groups, stationed in the Crimea, its impact on the military-political situation in the Black Sea region is considered, also the analysis of possible scenarios of the situation in the region in the context of the Ukrainian crisis has been made. In addition, it examines the impact of the situation in the Crimea on the general state of conventional security in Europe.

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## Machine Building and Engineering

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**Car Diagnostic Systems**

*Keywords:* cars; active verification; diagnostics; diagnostic devices; interactive verification; disrepairs.

*Abstract:* The article describes diagnostics of vehicle systems. Peculiarities of active and interactive diagnostic procedures have been discussed. A number of modern diagnostic tools to facilitate the measurement of temperature, noise, density and others have been evaluated. A layout of diagnostic center has been proposed.

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# Information Science, Computer Engineering and Management

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## **Constructing an Optimal Set of Frequency Intervals Groups and their Corresponding Frequencies**

*Keywords:* the distribution function of a random variable; frequency intervals.

*Abstract:* In this paper, we propose a new approach to building an optimal combination of frequency intervals groups and their corresponding frequencies. The solution of the problem of determining an optimal number of intervals to build the distribution function of a random variable with a sufficient degree of certainty has been found.

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*V.V. Dobromyslov, A.E. Aleksandrov, A.A. Vostrikov*

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## **Algorithms for Finite Element Global Matrix Generation for Transient Thermal and Mechanical Problems**

*Keywords:* finite element method; algorithm library; transient thermal problem; effective algorithms for creating global matrix and right-side vector.

*Abstract:* Effective algorithm for creating global matrix and right-side vector to reduce the estimated time of thermal and mechanical problems is described in this article. This algorithm is implemented with the help of the finite element software system based on algorithms library. The tests showed the effectiveness of the developed algorithms over classical ones.

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## Economic Sciences

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## **The Influence of the Level of Unrepresentative Sampling Risk on the Amount of Auditing**

*Keywords:* audit sampling; risk of unrepresentative sampling; risk of sampling error; limiting sampling error.

*Abstract:* The article defines the concepts of ‘‘risk related to the sampling method’’, and ‘‘risk of unrepresentative sampling’’; the relationship between the level of unrepresentative sampling risk and the amount of audit sampling has been explained. The tasks auditors have to solve when doing sample auditing have been defined.

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*Russian Peoples’ Friendship University, Moscow*

## **Management of Economic Safety of a Pharmaceutical Organization: System and Methodology**

*Keywords:* pharmaceutical organizations; economic safety; management system; methodology.

*Abstract:* The necessity of introducing the institute of safety management for pharmaceutical organizations is proved. The methodology of management of economic safety of pharmaceutical organizations, including theoretical, methodical and organizational bases, to ensure economic and social safety of organizations and prevent the influence of external and internal threats, is developed.

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*P.V. Ryabenko*

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## **Improving Management of Affiliated Companies in the Integrated Structure**

*Keywords:* integrated corporate structures; GC ‘‘PIK’’; evaluation of integrated structures; profitability; real estate development.

*Abstract:* The article discusses the theoretical and practical basis for the creation and evaluation of the integrated corporate structures.

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*E.Ya. Shcheglova*

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**Features of the Territorial Organization of the Retail Network in the Volga Federal District**

*Keywords:* retail network; territorial organization; stages of development of retail network.

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*Abstract:* The article presents the stages of development of the territorial structure of the retail network, using the data on the formation of its regional elements. The effect of retail network development on the integration of social and economic processes in the regions of the Volga Federal District has been studied.

## **Biotechnology and Medicine**

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**The Impact of Ultrafine Powders on Occupational Diseases**

*Keywords:* occupational risks; human health impact; metallic and oxide powders; ultrafine powder; nanopowder; mixtures; aerosols; occupational disease; parameters of cardiovascular system; respiratory disease.

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*Abstract:* The paper describes the results of the experimental research into the effect of ultrafine and nano powders on human health. A predominant effect of particles on the respiratory system was shown. An episodic contact with metal powders results in some increase in vascular dystonia.

## **Linguistics**

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**American Engineering Language Resources**

*Keywords:* American language; concrete set; multi- component substances; resources; specialized nucleus; supercomputers.

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*Abstract:* The paper studies the fragment of American supercomputers language resources. Multi-component substances, realizing specialized knowledge of this engineering domain, have been analyzed.