

## ABSTRACTS

### THEORETICAL GROUNDS, RESEARCH, DEVELOPMENT PRACTICES DESIGNING

#### DIGIT AS TEMPTATION MAN AND THE NEW TECHNOLOGICAL MODE

*Sergey A. Smirnov*

The article discusses the problem of the impact on humans of the implementation of smart technologies in everyday life. In this regard, the author discusses various anthropological trends that dominate modernity. These are the trend of care, the trend of protection and the trend of alternatives. The author raises the question that the situation is actually fundamentally open. We do not yet know which trend will win. Whether the trend of man's withdrawal, his abandonment of himself and his replacement by the Posthuman, will win, or will the alternative trend to the first win, that is, the person's desire to save himself and still remain a thinking, loving and suffering creature. The concept of ethical and humanitarian expertize is discussed. A different concept is proposed - an anthropological alternative.

**Keywords:** man, human situation, temptation, figure, gadget, smart technology, ethical expertize, humanitarian expertize, examination, anthropological alternative.

#### SELF-EDUCATION AND DIGITALIZATION

*Victor R. Imakaev*

This article discusses how digital technologies affect the self-education level of students. It reviews the self-education phenomenon and the difference between autodidacts and "botans", the students who do their teacher's tasks on their own. Two trends of digitalization in modern education, "a global teacher" and "A Big Brother", are exposed to critical analysis.

**Keywords:** self-education, autodidact, "botan", digitalization in education.

## **MEDIATORY` ACTION: FUNCTIONAL GENESIS AND ONTOGENESIS**

*Boris D. Elkonin*

This article presents the main theses on the conditions of connectivity of functional Genesis (formation) and ontogenesis. The author also provided an idea of the new vision of the task and those changes and additions that are necessary in the updated view of the target beginning of the action. In addition, the phase transition scheme is considered, which requires further understanding.

**Keywords:** connectedness, the goal under certain conditions, the terms of the open actions, phase transition

## **CONTEXT, DYNAMICS, MEASUREMENT**

### **CRITICISM OF THE PROTOTYPE OF MODERN TEACHER EDUCATION IN RUSSIA**

*Yulia Yu. Bocharova*

The article attempts to polemicize the prototype of modern teacher education, dating back to the tradition of a disciplined technical education and not corresponding to the challenges of modern society and economic structure. The author analyzes the concept of the prototype of teacher education, enshrined in educational standards, programs, forms of its receipt, and proves a high degree of closure of this system.

**Keywords:** prototype, teacher education, open system

### **QUALITY OF GENERAL EDUCATION IN THE KRASNOYARSK KRAY: PROBLEMS AND SOLUTIONS IN THE DIGITAL ECONOMY**

*Irina P. Vorontsova, Tatyana S. Zimnyakova, Inna G. Kuzmina*

The report presents the results of an interdisciplinary study of the basic socio-economic and socio-cultural factors necessary for a correct and comprehensive assessment of human capital at the level of individual territories of the Yenisei Siberia macro-region.

The study has been carried out with the financial support of the Russian Foundation for Basic Research, the Government of Krasnoyarsk Krai, the Krasnoyarsk Region Science and Technology Support Fund under the research project “Formal Approaches and Practice of Measuring Human Capital in the Context of Assessing the Quality of Life of a Territory population (on the example of the Yenisei Siberia macroregion)” No : 18–410–242006 (r\_mk).

**Keywords:** human capital assessment; Yenisei Siberia macro-region; socio-economic indices

## **HUMAN CAPITAL IN THE DIGITAL ECONOMY: PROBLEMS OF MEASUREMENT AND EVALUATION**

*Denis V. Davydov, Dmitry V. Krutikov, Irina P. Vorontsova*

The report presents the results of an interdisciplinary study of the basic socio-economic and socio-cultural factors necessary for a correct and comprehensive assessment of human capital at the level of individual territories of the Yenisei Siberia macro-region.

The study has been carried out with the financial support of the Russian Foundation for Basic Research, the Government of Krasnoyarsk Krai, the Krasnoyarsk Region Science and Technology Support Fund under the research project “Formal Approaches and Practice of Measuring Human Capital in the Context of Assessing the Quality of Life of a Territory population (on the example of the Yenisei Siberia macroregion)” No : 18–410–242006 (r\_mk).

**Keywords:** human capital assessment; Yenisei Siberia macro-region; socio-economic indices

## **SUPPORT FOR BUILDING AN INDIVIDUAL EDUCATIONAL PROGRAM IN THE DIGITAL EDUCATIONAL ENVIRONMENT**

*Tatyana M. Kovaleva*

The article describes 2 principles: individual approach and individualization, and introduces the concept of an individual educational program focused on the principle of individualization. The main conditions for the implementation of tutor support for an individual educational program of a student are highlighted, and the specifics of this support in the digital educational environment are shown.

**Keywords:** Individual approach, individualization, individual educational program, tutor support, digital educational environment.

## **PSYCHOLOGY AS A PLAYER IN THE SYSTEM OF RELATIONS "HUMAN-SOCIETY"**

*Nataliya V. Lukiyanchenko*

Following the definition of modern society as psychological, the author shows the specifics of the complex correlation and mutual influence of academic, practical psychology and psychological education, their conditionality by the increased importance of psychology in life and the relationship between society and man.

**Keywords:** psychology, psychological society, academic psychology, practical psychology, psychological education

## **SOCIAL NETWORKS AS A FIELD OF SOCIALIZATION: TEENAGE AGGRESSIVENESS**

*Vladimir S. Sobkin, Aleksandra V. Fedotova*

The article is devoted to the analysis of teenagers' attitude towards aggression in social networks. It is based on data obtained by specialists of the Center for Sociology of Education of the Institute of Education Management of the Russian Academy of Education as a result of a questionnaire survey of 2074 students of Moscow region schools. The article deals with teenagers' attitude towards aggressive content on the social networks as well as their personal experience of aggressive situations. The authors conclude that the key factors that determine the teenagers' attitude towards aggression in social networks are their gender, age, intensity of usage of social networks, self-presentation on the Internet, social status in the class, vision of their future success etc.

**Keywords:** social networks, adolescence, gender specifics, social status, self-presentation on the Internet, aggression, cyberbullying, intensity of social networks usage

## **MATHEMATICAL LITERACY: UNDERSTANDING, ANALYSIS OF RESOURCES, APPROACHES TO THE DEVELOPMENT OF TOOLS**

*Elena G. Tyaglova, Rita L. Vasilieva*

Annotation. The article considers the issue of changes in the system of assessing the quality of general education in connection with the adoption of the

State Program of the Russian Federation "Development of Education" and the introduction of the project "Monitoring the formation of functional literacy of students". The analysis of information resources for the formation of a bank of tasks aimed at the formation and development of mathematical literacy is presented, as well as the directions of the center of mathematical education with mathematics teachers on the creation and inclusion in the educational process of tasks aimed at the formation of mathematical literacy are presented.

**Keywords:** functional literacy, mathematical literacy, the federal state educational standard, a system for assessing the quality of general education, tasks for the formation of mathematical literacy.

## **FESTIVAL OF NATURAL SCIENCES "RIDDLES OF NATURE": DESIGNING AN EDUCATIVE EVENT FOR STUDENTS OF GRADES 3-4**

*Nadezhda A. Frolova, Kseniya A. Rutskaya*

The paper describes designing the Festival of education in natural sciences "Riddles of nature" for students of grades 3-4. The Festival is presented as a project of an educational event for students and their teachers as managers of educational and research activities. The authors of the paper implemented the idea of the event for students through a non-evaluative dialogue of a student as an author with scientists and interested audience about the results of the already completed research study. Besides authors implemented the idea of creating conditions for the emergence of an open situation of questioning as a substantive dialogue in order to create a situation of acquainting with a new broad research topic for participants of educational event. Later this topic can become the basis of a series of research and training projects. For teachers such educational event is a precedent in observing and discovering new aspects of their students' behavior. The next stage of educational event development will consist in the design of procedures for monitoring changes in research activities of event participants in their lives outside the Festival.

**Keywords:** educative event, non-evaluative dialogue, reflection, festival of Natural Sciences, education in natural sciences.

# THE MASTER'S PROGRAM "CONFLICT MANAGEMENT" HOW TO PRACTICE NEGOTIATIONS

*Boris I. Khasan, Larisa A. Novopashina*

In this article, we continue to discuss issues that have become Central to us. These questions include the characteristics of participants and their resources, through which they acquire or ignore the previously unclear and unsecured status of genuine subjects. The issue of new relations is still in the focus of attention. As well as studying the conditions, the possibility of their registration, formation in the institutional environment.

In addition, we address the challenge of overcoming paternalistic attitudes in University education, and we continue to reflect on the effects and outcomes of education.

**Keywords:** conflict reality, paternalistic relations, subject position

## DEVELOPMENT OF PLANNING FOR YOUNG MEN AND GIRLS IN THE CONTEXT OF A BUSINESS GAME

*Julia G. Yudina, Elena Y. Kabakova*

The article presents the hypothesis, materials and methods for experimental solving the problem of content and organization of the planning action in youth in a play space that has a framework character, unfolds on the basis of imitation of professional activity and requires cooperation with others for the most productive moves and game decisions.

According to the study, it is theoretically grounded that the understanding of planning in adolescence as a conscious ability to hold and effectively coordinate the main components of this action is experimentally verified: setting a goal as an image of a desired and significant result, available/missing resources for its achievement and the conditions of that reality or context, in which the action takes place. We have developed and tested the content of the questionnaires, which allows us to record the dynamics in the formation of the planning action of boys and girls, developed the principles of organization, the content and methodology of conducting a business game as an event in the formation of the planning action of boys and girls.

**Keywords:** adolescence, planning, business game, event.

## REPORTS ON VARIOUS TOPICS

### CHANGING THE RELATIONS OF SUBJECTS OF THE EDUCATIONAL PROCESS IN THE FRAMEWORK OF THE DIGITAL EDUCATIONAL ENVIRONMENT

*Galiya N. Gimatdinova*

This article describes the main changes in the relations between the subjects of the educational process in the areas of "student-student", "student-teacher", "teacher-teacher", "administration-teacher", "teacher-parent", as well as examples of new forms organization of the educational process in the context of the development of a digital educational environment.

**Keywords:** subjects of the educational process, digital technologies, digital educational environment, mobile applications, virtual space.

### STATISTICAL ANALYSIS OF STUDENTS' INVOLVEMENT IN SCIENTIFIC RESEARCH WORK

*Evgeniya G. Grigorieva, Anastasia D. Lobanova*

The article is devoted to the analysis of students' involvement in research work of Pedagogical University. Correlation and regression analysis of student' research work is based on empirical data of monitoring of students' satisfaction with the conditions of the implementation of educational programs conducted by the Krasnoyarsk State Pedagogical University named after V. P. Astafyev 2016-2018.

**Keywords:** pedagogical university, students' research work, sociological survey, statistical analysis, econometric model.

### SHALL WE PLAY DIGITAL?

*Ivan A. Drobyshev*

The central thesis of this paper is that a certain type of play activity is extremely resistant to digitalization. The said play activity includes professional competitions aimed to improve "soft skills" among the participants. A case of Youth Professional Educators' Games organized by Krasnoyarsk Krai Young Professional Educators Association is examined. Key components of "live" play, that make it resistant to partial or complete transfer to digital (including online) forms, are described.

**Keywords:** play, digitalization, soft skills.

# INTELLECTUAL COMPETITION FOR STUDENTS OF GRADES 5-9: BETWEEN THE SCYLLA OF PROFESSIONALIZATION AND THE CHARYBDIS OF GROWING UP

*Oksana V. Znamenskaya*

The article deals with the opposition of age-oriented and professionally-oriented approaches in planning and conducting intellectual competitions for schoolchildren. It is shown that when organisers of the mentioned events lack understanding which approach they stick to, it causes arranging competitions in inadequate forms and selecting conflicting assessment criteria.

**Keywords:** intellectual competition for schoolchildren, developing educational forms, normal psychological development in different age stages

## SPACE OF INTELLECTUAL COMPETITION AS A RESOURCE FOR TUTOR SUPPORT

*Kseniya A. Rutskaya, Nadezhda A. Frolova, Mihail S. Averkov*

The paper introduces the term "intellectual competition". It proves that educational environment of the city aimed at preparing students to perform at intellectual competitions has the conditions for emergence of tutor support. Such environment is open, variable, unstructured, and redundant. Two basic levels of activity of students are revealed, which differ fundamentally in the nature of activity and eventfulness, in the basic motivational and intentional grounds. The first level is the activity of students in connection with cognitive interests, trials in activities. The second level is the level of high intellectual achievements. The paper provides the basis for designing a managerial model of arranging educational events needed for relevant classifying competitions and arranging work with the pedagogical community involved in the environment of intellectual competitions. The authors describe a possible model of infrastructure for intellectual competitions in the Krasnoyarsk city.

**Keywords:** intellectual competition, tutor support, educational environment, model of infrastructure for intellectual competitions, cognitive interest, high intellectual achievements.