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**PERSPECTIVES OF WORLD
SCIENCE AND EDUCATION**



**ABSTRACTS OF IV INTERNATIONAL
SCIENTIFIC AND PRACTICAL CONFERENCE
DECEMBER 25-27, 2019**

**OSAKA
2019**

PERSPECTIVES OF WORLD SCIENCE AND EDUCATION

Abstracts of IV International Scientific and Practical Conference

Osaka, Japan

25-27 December 2019

Osaka, Japan

2019

UDC 001.1

BBK 79

The 4th International scientific and practical conference “Perspectives of world science and education” (December 25-27, 2019) CPN Publishing Group, Osaka, Japan. 2019. 1021 p.

ISBN 978-4-9783419-8-3

The recommended citation for this publication is:

Ivanov I. Analysis of the phaunistic composition of Ukraine // Perspectives of world science and education. Abstracts of the 4th International scientific and practical conference. CPN Publishing Group. Osaka, Japan. 2019. Pp. 21-27. URL: <http://sci-conf.com.ua>.

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TABLE OF CONTENTS

1.	ANISTRATENKO A. FOOD AS INFORMATION BALANCE MAKER: POETICS FEATURES OF ALTERNATE HISTORY (ON THE BASIS OF M. BOCIURKIW AND S.FRY NOVELS).	15
2.	BELIKOVA N. I., VATAMANYUK N. V., BELIKOVA L. O., BELIKOV A. B. FUNCTIONAL REHABILITATION OF PATIENTS AFTER RESECTION OF AN EZABE LOWER JAW.	19
3.	BIRCHAK I. V., MAKAROVA O. A. CHARACTERISTIC FEATURES OF BLOOD AGGREGATIVE STATE REGULATION SYSTEM IN REPRODUCTIVE AGE WOMEN WITH III ANEMIA DEGREE ON THE BACKGROUND OF UTERINE BLEEDING.	24
4.	BOBUNOV A., KHYZHAN O., KROTENKO V., KOVSHUN L., BOBUNOVA D. DETERMINATION OF XENOBIOTIC CONTENT FOR EVALUATION SAFETY OF CROP PRODUCTION.	28
5.	CHEREVKO Y. RISK FACTORS OF CANCER DEVELOPMENT AMONG POPULATION IN THE MODERN WORLD.	32
6.	CHIGVINTSEVA O. P., GROMOVA M. YU. STUDY OF THE PROPERTIES OF CARBON PLASTIC BASED ON OF AROMATIC POLYAMIDE PHENYLONE C-2.	36
7.	DYCHKO O. A. THE ASSESSMENT OF THE PHYSICAL EFFICIENCY INDICATORS OF CHILDREN WITH SCOLIOSIS.	43
8.	HOVORUN T. V., MANJUSHREE P., DISHANT P. GENDER DIMENSIONS OF STUDENT'S SOCIALIZATION IN SECONDARY SCHOOLS IN INDIA.	48
9.	ISAIEVA O. A., AVRUNIN O. G. IMAGE PROCESSING FOR VIDEO DERMATOSCOPY.	64
10.	KOSTIUK T., TYAZHKOROB T. CLINICAL PHYSICAL EXAMINATION OF PATIENTS WITH DYSFUNCTION OF TMG.	69
11.	KOSTENKO I. UKRAINIAN DIMENSIONS OF THE BOLOGNA PROCESS.	73
12.	KYSELYOVA O. B. WEB-QUEST AS AN INNOVATIVE TECHNOLOGY OF PREPARING FUTURE TEACHERS.	80
13.	LEZHNINA M., SHARAVARA L. PROFESSIONAL RISKS OF THE DEVELOPMENT OF MANUFACTURING DISEASE IN WORKERS OF THE PLATING PLANT OF THE LEADING METALLURGICAL ENTERPRISE.	85
14.	MOKRYK O. Y., GRUSHKA O. I., SHEVCHUK L. P., SHAMLYAN O. V. RESEARCH OF NEUROHUMORAL MARKERS OF ANTI-STRESSOR PROTECTION IN SURGICAL DENTAL PATIENTS.	91

15.	MAKHMUTOV R. F., SHABAN N. I., MAKHMUTOVA A. R. CHARACTER AND ROLE OF IMMUNOPATOLOGICAL PROCESSES, OPTIMIZATION OF THERAPY IN ACUTE RESPIRATORY-VIRAL INFECTIONS IN CHILDREN.	95
16.	OPERCHUK N., ZADOROZHNA V. SENTINAL AND ROUTINE EPIDEMIOLOGICAL SURVEILLANCE FOR INFLUENZA AND ACUTE RESPIRATORY VIRAL INFECTIONS IN THE KIROVOGRAD REGION.	103
17.	OSTAPENKO O. G., YEROFIEIENKO L. V. LEGAL STATUS OF THE SUBJECTS OF ECONOMIC ACTIVITIES IN UKRAINE.	109
18.	PIDDUBNA A. A., STRUS YU. A., MAKOVICHUK K. Y. MEDICAMENTOUS CORRECTION OF DYSLIPIDEMIA IN PATIENTS WITH TYPE 2 DIABETES.	117
19.	PENIUK V. O. SEARCHING FOR WAYS OF DIAGNOSTICS THE CADRES' POTENTIAL OF TRADE ENTERPRISE.	122
20.	PIDDUBNA A. A., VIVSIANNYK V. V., BILOUS M. V., MAKOVICHUK K. Y. BASIS OF SOME GEAR EROSION AND ULCERATIVE LESIONS OF THE STOMACH IN PATIENTS WITH CHRONIC DISEASES KIDNEY STAGE II-III.	131
21.	PAVLENKO D., RIDEI N., KUZMENKO Y., KATSERO O. DEVELOPMENT ASPECTS OF HIGHER SCHOOL ADMINISTRATORS' PROFESSIONALISM IN THE CONTEXT OF SELF-EDUCATION AND SELF-MANAGEMENT.	138
22.	PELEPCHUK O. S., BOBRO E. V., DYSHEL G. A. MONITORING GROWTH-AGE INDICATORS OF GIRLS OF 7-16 YEARS OLD.	146
23.	PIKAS O. B. LIVOLINE FORTE AND IMUNOFAN IN COMBINED TREATMENT IN PATIENTS WITH PULMONARY TUBERCULOSIS AFFECTED BY CONSEQUENCES OF THE CHERNOBYL ACCIDENT.	150
24.	PIKAS P. B. APPLICATION OF SYMBITER IN COMBINATION WITH SURGICAL TREATMENT OF PATIENTS WITH GASTRIC AND INTESTINAL POLYPS.	154
25.	PROTS L. A., HOLOVEI V. M., LAVRINENKO V. I. TO THE QUESTION OF MANUFACTURING HIGH-QUALITY FUNCTIONAL ELECTRONICS PLATES FROM GLASSY $Li_2B_4O_7$.	159
26.	SHAMONYA V., YURCHENKO A., KHVOROSTINA YU., LOBODA V. NON-FORMAL AND INFORMAL EDUCATION ON OPEN EDUCATIONAL RESOURCES.	163
27.	SKRYNNYK O. V. ORGANIZATIONAL NATURATION AS A PROCESS OF STRUCTURAL FORMATION OF ORGANIZATION.	167

28.	SHEVCHENKO A. I., KYDIN S. V., KAPICHON O. H. PROBLEMS OF INTERACTION BETWEEN PUBLIC AUTHORITIES AND LOCAL SELF-GOVERNMENT IN UKRAINE.	170
29.	SHAPA L. N., POPOVICH E. S. THE PROBLEM OF SYNTHESIS OF APPLIED AND THEORETICAL LINGUISTICS IN TRAINING THE TRANSLATION SKILLS AT NON-LINGUISTIC HIGHER EDUCATION INSTITUTIONS.	176
30.	SYMONENKO R. V. POTENCY ASSIGNMENT OF THE EFFECTIVENESS OF MOBILE TEETH ADHESIVE CONTROLLED IMMOBILIZATION IN THE PROCESS OF COMPLEX REHABILITATION OF PATIENTS WITH GENERALIZED PERIODONTITIS.	181
31.	SHIXALIYEV K., RZAYEVA V. APPLICATION OF HEAVY METAL IONS SEPARATION FROM CONTAMINATED WATER.	185
32.	SKASKIV A. GAME STUDY TECHNOLOGY.	193
33.	SVIATNENKO V. YU. SCIENTIFIC DEVELOPMENT AS AN ECONOMIC GROWTH FACTOR.	197
34.	TEPLIUK M., LIEZINA A. ADVANTAGES OF APPLICATION OF VALUE ASPECTS IN THE MANAGEMENT OF ENTERPRISES.	205
35.	ТΥΜΟΦΙΙΕΥΑ Μ. Ρ., ΡΑΥΛΕΝΚΟ Μ. ΥΥ. STUDY OF SUICIDAL IDEATION IN MEDICAL STUDENTS.	214
36.	TRETYAK T. E., GUTSALENKO YU. G., SHELKOVROI A. N., MIRONENKO A. L., MIRONENKO S. A. MATHEMATICAL MODELING OF CUTTING TOOL PROFILE FOR MACHINING OF NON-INVOLUTE GEARS.	217
37.	ZELYA A. G., GUNCHAK V. M., ZELYA G. V., KUVSHYNOV O. Y., LISNYCHYI V. B. DETERMINING WART POTATO SYNCHYTRIUM ENDOBIOTICUM (SCHILBERSKY) PERCIVAL SOURCES IN UKRAINE.	227
38.	АЩЕПΚΟΥΑ Η. С. АΝΑΛΙΖ ΣΙΛΟΥΟΓΟ ΡΕΡΕΔΑΤΗΟΓΟ ΒΙΔΗΟШЕННЯ СХВАΤΥ.	234
39.	ΑΒΕΤΙСОΥΑ Ι. С., ΜΟΡΟΖΟΥΑ Β. Β. ΜΙЖΜΟΒΗΑ ΙΝΤΕΓΡΑЦΙΑ В ΡΟЦЕСΙ ВΙΥЧЕННЯ АНГЛΙЙСΚΟΪ ΤΑ ΛΑΤΙΝСΚΟΪ ΜΟΒ В ΜΕΔΙЧΗΙХ ВΥΖΑХ.	239
40.	ΑΔΑШЕΥСΚΑ Ι. Ю., ΚΡΑЄΥСΚΑ Ο. Ο. ΚΟΝСтΡУΚΤΙΥΗΙ ΦΡΑΚΤΑΛΙ ЯК ΡΕΖУΛΤΥΟΥЧЕ СΤΙΣΚΥΟУЧЕ ΒΙΔΟΒΡΑЖЕННЯ ΡΟΔΙΒΗΟΤΙ.	245
41.	ΒΟΔΗΑΡЧУК Ю. С. ΟСΟΒΛΙΥΟΤΙ ВΙΒΟΡΥ ΡΑΡΑΜΕΤΡΙΥ ΔΥА ВΕРИФΙКАЦΙЇ ТА ВΑΛΙДАЦΙЇ ΡΟΖΡΑХУНΚΙΥ ΡΙИ ВΙΚΟРИСТАΗΙ ΜΕΤΟΔΙΥ ΟΒЧИСΛΥΟΥΑΗΟЇ ГΙΔΡΟΔΙΗΑΜΙΚΙИ.	254

GAME STUDY TECHNOLOGY

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Abstract. Features of computer science training using game technologies are presented. The possibility of using different games in the educational process of general education institutions is revealed. Ways of organizing teacher cooperation with students are demonstrated. The expediency of development of game technologies in modern educational establishments is substantiated.

Key words: game technologies, cross-curricular integration, Computer Science, competent approach, NUSH model.

New system of training of future teachers of informatics in modern conditions realization of the concept of the Ukrainian school requires improvement of the system of professional training of teachers, creation of modern standards of higher education, revision of the structure of programs of educational disciplines, updating of content and methodical materials, introduction of non-traditional approaches to the organization of educational process general secondary education.

In such circumstances, the problem of preparing future teachers for the introduction of innovative teaching methods, in particular game technologies, which make it

possible to make adjustments to the methodology, to provide new ways of organizing and implementing the educational process is actualized [1].

The problem of using game learning technologies has been researched over the years by many scientists. In particular, many scientists investigated the problem of introduction of new pedagogical technologies in the educational process of institutions of higher and secondary education. It is important to note that the research of these scholars describes, for the most part, general approaches to the use of game elements and educational games in the educational process .

In the conditions of reforming pedagogical education, the development orientations were changed to a competent approach to teaching, to the dynamic mobility and professional readiness of future teachers of informatics to carry out educational activities in the conditions of creation of the New Ukrainian School. Graduates of modern pedagogical institutions of higher education have sufficient theoretical professional training in subject areas, but often encounter difficulties in applying knowledge in practice.

On the basis of the analysis of pedagogical researches of a number of scientists the model of preparation of the future teacher of informatics was formed, which contains three main structural blocks: preparatory, methodological and activity. At the preparatory stage the purpose and main tasks, means of motivation, control and correction of the projected results are defined. The second part analyzes the principles of training specialists in the field of school computer science, presents the main conceptual features of the introduction of game technologies in the educational process of modern educational institutions. The third stage presents practical tools for the implementation of the model at school, reveals the peculiarities of the choice of methods and forms of learning organization, new approaches to using the game as an integral part of training of future specialists in the field of digital technologies.

In addition, the developed model of training of future teachers of informatics combines the following components: pedagogical, methodological and competence, which are aimed at forming a highly qualified teacher of the modern Ukrainian

school. The unity of all components determines the integrity of the model, provides the opportunity for its practical application in school education.

The use of game technologies in the preparation of future teachers of computer science is considered as one of the variant components of the developed model, which determines the ways of using different types of games in computer science classes, gives the opportunity to diversify the selection of tasks, activate and direct students to achieve high learning outcomes.

The developed model of preparation of future teachers of computer science for the use of game technologies in the educational process of modern school is aimed at assisting young specialists in their professional development as competent and creative specialists, who not only have perfect knowledge of theoretical apparatus, but also know and expediently use different methods of practice. digital and game learning technologies [2].

The theoretical significance of the obtained results is that the model of preparation of future teachers of informatics for application of game technologies is developed and pedagogical conditions of realization in institutions of higher and general secondary education are substantiated; the content and values of the main structural components of the proposed model are specified; the main criteria and indicators are defined: vocational-pedagogical, methodological and technological; the content of the main categories of the model is specified: game technologies; introducing future technology teachers of game technologies into school practice; formation of technological methods for application of game technologies in pedagogical activity.

The practical significance of the obtained results is to improve the content of the curriculum of the disciplines, special courses taught by students of Computer Science at the Ternopil Volodymyr Hnatiuk National Pedagogical University, in the development of a methodological manual for students and teachers [3].

The use of game technologies in the preparation of future teachers of computer science helps to increase the practical direction of the educational process, provides an opportunity for an integrated approach to the study of computer science along with other disciplines.

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