

**Belarusian State University**



 **FACULTY OF MECHANICS
 AND MATHEMATICS**

PROGRAM

International scientific and practical

CONFERENCES

**«TRANSFORMATION OF THE MECHANICAL-MATHEMATICAL AND IT EDUCATION**

**IN THE CONTEXT OF DIGITALIZATION»**

dedicated to the 65th anniversary of the Faculty of Mechanics and Mathematics

***April 26-27, 2023***

Minsk

2023

**CONFERENCE VENUE**

Educational institution "Belarusian State University"

Republic of Belarus, 220030, Minsk, Nezavisimosti Ave., 4

**CONFERENCE LANGUAGE**

The official languages of the conference are Russian and English. Simultaneous translation of reports provided in other languages will not be carried out. The publication of papers in the conference materials is carried out in the language of the presented report.

**CONFERENCE PROGRAM**

***Opening of the conference*** April26, 2023 10:00 – 10:10

***Plenary session*** April 26, 2023 10:10 – 14:00

***Sessions of sections*** April 26, 2023 15:00 – 17:00

 April 27, 2023 10:30 – 12:30

***Closing session*** April 27, 2023 13:00 – 14:30

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| **April 26, wednesday.** Opening of the conference*The program shows the local time (Minsk, GMT+3)* |
| 09:00 – 10:00 | **Registration of participants** *(Nezavisimosti Ave., 4 (geographical building of BSU))* |
| 10:00 – 10:10 | **Opening of the conference**  |
| **Plenary session***Aud. 312, geographical building of BSU* |
| 10:10 – 10:30 | ***Ablameyko S.V.1, Zhuravkov M.A.2*** ABOUT TEACHING THE DIRECTION OF "ARTIFICIAL INTELLIGENCE" AT THE CLASSICAL UNIVERSITY*1 Academician of the National Academy of Sciences of Belarus, Doctor of Technical Sciences, Professor**2 Doctor of Physical and Mathematical Sciences, Professor**Belarusian State University, Minsk, Belarus* |
| 10:30 – 10:50 | ***Guo Shuhong*** SUCCESSFUL WORK OF THE JOINT INSTITUTE OF DALIAN POLYTECHNIC AND BELARUSIAN STATE UNIVERSITIES (SIDB): EXPERIENCE AND CHALLENGES*Deputy Director of IDB Dalian Polytechnic University, Dalian, China* |
| 10:50 – 11:10 | ***Bosova L.L.*** SCHOOL EDUCATION IN THE SUBJECT AREA "MATHEMATICS AND COMPUTER SCIENCE" AS THE BASIS OF HIGHER MATHEMATICAL EDUCATION*Professor, Doctor of Pedagogical Sciences, Corresponding Member of RAO,* *Moscow Pedagogical State University, Moscow, Russia* |
| 11:10 – 11:30 | ***Noskov M.V.1, Weinstein Yu.V.2, Kustitskaya T.A.3*** EARLY WARNING OF THE RISK OF ACADEMIC FAILURE IN THE DIGITAL EDUCATIONAL ENVIRONMENT*1 Doctor of Physical and Mathematical Sciences, Professor**2 Doctor of Pedagogical Sciences, Associate Professor**3 Candidate of Physical and Mathematical Sciences**Siberian Federal University, Krasnoyarsk, Russia* |
| 11:30 – 11:50 | ***Mikhasev G.I.*** NONLOCAL THEORY OF ELASTICITY IN MODELING ONE- AND TWO-DIMENSIONAL NANOSCALE OBJECTS AND ELECTROMECHANICAL SYSTEMS*Doctor of Physical and Mathematical Sciences, Professor, Belarusian State University, Minsk, Belarus* |
| 11:50 – 12:25 | **Coffee break** |
| 12:30 – 12:50 | ***Sheinov V.P.1, Devitsyn A.S.2*** PSYCHOLOGICAL AND PEDAGOGICAL PROBLEMS OF DIGITALIZATION*1 Doctor of Sociological Sciences, Candidate of Physical and Mathematical Sciences, Professor, Republican Institute of Higher Education, Minsk, Belarus**2 Belarusian State University, Minsk, Belarus* |
| 12:50 – 13:10 | ***Golubeva L.L.1, Gromak V.I.2, Malevich A.E.3, Shcheglova N.L.4***25TH ANNIVERSARY OF THE SPECIALTY "COMPUTER MATHEMATICS AND SYSTEM ANALYSIS": RESULTS AND PROSPECTS*1,3,4 Candidate of Physical and Mathematical Sciences, Associate Professor**2 Doctor of Physical and Mathematical Sciences, Professor**Belarusian State University, Minsk, Belarus* |
| 13:10 – 13:30(online) | ***Khudenko V.N.1, Rovba E.A.2***ON THE EXPERIENCE OF USING DYNAMIC VISUALIZATION FOR TEACHING MECHANICAL AND MATHEMATICAL DISCIPLINES*1 Candidate of Physical and Mathematical Sciences, Associate Professor, I. Kant Baltic Federal University, Kaliningrad, Russia**2 Doctor of Physical and Mathematical Sciences, Professor, Y. Kupala Grodno State University, Grodno, Belarus* |
| 13:30 – 13:50 | ***Korzyuk V.I.1, Rudko Ya.V.2*** ON THE ABSENCE AND UNIQUENESS OF CLASSICAL SOLUTIONS OF MIXED PROBLEMS FOR A TELEGRAPHIC EQUATION WITH A NONLINEAR POTENTIAL*1 Academician of the National Academy of Sciences of Belarus, Doctor of Physical and Mathematical Sciences, Professor**2 Institute of Mathematics of the National Academy of Sciences of Belarus, Minsk, Belarus* |
| 14:00 – 15:00 | **Dinner** |
| 15:00 – 17:00 | **Work of sections** |

*Section 1* **METHODOLOGICAL ASPECTS OF TEACHING MECHANICAL AND MATHEMATICAL DISCIPLINES IN THE DIGITAL EDUCATIONAL ENVIRONMENT OF THE UNIVERSITY**

***Chairman:*** *Head of the Department of Function Theory, Professor* ***N.V. Brovka******Secretary:*** *Senior Lecturer of the Department of Function Theory* ***A.P. Karpova***

***April 26 15:00 – 17:00
Aud. 409, the main building of BSU***

1. ***Vyarvilskaya O.N., Medvedev D.G.*** *BSU, Minsk, Belarus*
ON THE SPECIFICS OF TEACHING THEORETICAL MECHANICS AT THE FACULTY OF MECHANICS AND MATHEMATICS IN THE CONTEXT OF DIGITALIZATION
2. ***Zenko S.I.*** *BSPU named after M. Tank, Minsk, Belarus*
ON THE IMPLEMENTATION OF METHODOLOGICAL TRAINING IN INFORMATICS FOR STUDENTS-TEACHERS OF THE FACULTY OF MECHANICS AND MATHEMATICS OF BSU ON THE BASIS OF THE ACTIVITY-SEMANTIC APPROACH
3. ***Lizunkov V.G., Politsinskaya E.V.*** *Yuti TPU, Yurga, Russia*
NEUROPEDAGOGY AS A TOOL EFFECTIVE TRAINING OF STUDENTS OF TECHNICAL AREAS OF MATHEMATICS
4. ***Politsinskaya E.V., Lizunkov V.G.*** *YUTI TPU, Yurga, Russia*PERSONALITY ORIENTATION AND NEURODIDACTIC LEARNING TECHNOLOGIES IN THE EDUCATIONAL PROCESS OF THE UNIVERSITY
5. ***Radyno N.Y.*** *BSU, Minsk, Belarus*
ON THE PROPERTIES OF THE RUSSIAN LANGUAGE AND THE ORIGIN OF SOME BASIC CONCEPTS IN MATHEMATICS
6. ***Rasolko G.A., Kremen Yu.A., Kremen E.V.*** *BSU, Minsk, Belarus*
ON THE PRACTICE OF USING SCM MATHCAD IN THE CONTEXT OF DIGITALIZATION OF TEACHING MATHEMATICAL DISCIPLINES
7. ***Skafa E.I.*** *DSU, Donetsk, Russia*
INNOVATIONS IN THE LECTURE-PRACTICAL SYSTEM OF EDUCATION: A TRIBUTE TO FASHION OR A REQUIREMENT OF THE TIME?
8. ***Brovka N.V., Badak B.A.*** *BSU, Minsk, Belarus*ON THE DEVELOPMENT OF MOTIVATION FOR ACHIEVEMENTS IN TEACHING MATHEMATICS TO STUDENTS
9. ***Belko I.V., Krishtapovich E.A****. BSATU, Minsk, Belarus*
STATISTICAL ROC-ANALYSIS OF THE LEVEL OF ASSESSMENT IN MATHEMATICS OF STUDENTS OF BSATU
10. ***Brovka N.V., Nenartovich M.V.*** *BSU, Minsk, SEI of Secondary School №.17, Lida, Belarus*
ON THE CLASSIFICATION OF TYPES OF VISUAL MODELING IN TEACHING ALGEBRA TO STUDENTS

***April 27 10:30 – 12:30
Aud. 412, the main building of BSU***

1. ***Buldyk G.M.*** *BGAS, Minsk, Belarus*DEVELOPMENT OF METHODOLOGICAL COMPETENCE OF THE FUTURE ENGINEER BY MEANS OF MATHEMATICS
2. ***Vasilevich M.A. Kovalenko N.S., Shcherba S.Y.*** *BSU, Minsk, Belarus*ON THE TEACHING OF MATHEMATICS FOR STUDENTS OF CHEMISTRY
3. ***Vlasov D.A.*** *Plekhanov Russian University of Economics, Moscow, Russia*CONTENT-METHODICAL FEATURES OF TEACHING A NEW ACADEMIC DISCIPLINE "INSTRUMENTAL METHODS IN ECONOMICS"
4. ***Vopnyarskaya A.G., Karpova A.P.*** *BSU, Minsk, Belarus*ON THE RELEVANCE OF DISCIPLINES SPECIALIZATIONS IN TRAINING STUDENTS OF PEDAGOGICAL SPECIALTIES
5. ***Evseeva E.G., Grebenkina A.S.*** *DSU, Donetsk, Russia, DPR MINISTRY OF EMERGENCY SITUATIONS, Donetsk, Russia*METHODOLOGICAL APPROACHES TO TEACHING MATHEMATICAL DISCIPLINES IN THE CONTEXT OF DIGITALIZATION OF EDUCATION
6. ***Kazachenok V.V.*** *BSU, Minsk, Belarus*JOURNAL "PEDAGOGY OF INFORMATICS" FOR TEACHERS IN THE CONTEXT OF INFORMATIZATION OF EDUCATION
7. ***Karasev P.A.*** *Plekhanov Russian University of Economics, RTU MIREA, Moscow, Russia*METHODOLOGICAL ASPECTS OF FINANCIAL MODELING PROBLEMS IN THE COURSE OF PROBABILITY THEORY AND MATHEMATICAL STATISTICS
8. ***Sinchukov A.V.*** *FU under the Government of the Russian Federation, Moscow, Russia*IMPLEMENTATION OF THE PRINCIPLE OF VISIBILITY OF TEACHING MATHEMATICS BASED ON WOLFRAMALPHA TECHNOLOGIES
9. ***Starovoitov A.P., Starovoitova N.A.*** *GSU named after F. Skaryna, Gomel, Belarus*METHODICAL ASPECTS OF THE USE OF EUMC IN THE STUDY OF THE DISCIPLINE «THEORY OF FUNCTIONS OF A COMPLEX VARIABLE»
10. ***Testov V. A., Perminov E. A****. VoSU, Vologda, UrTISI SibSUTI, Yekaterinburg, Russia*METHODOLOGICAL FEATURES OF DIGITAL TRANSFORMATION OF TEACHING MATHEMATICS
11. ***Shushkevich G.Ch., Shushkevich S.V.*** *Y. Kupala State University, Grodno, Belarus*USING PYTHON LIBRARIES FOR ANALYTICAL CALCULATIONS AND CURVE CONSTRUCTION

*Section 2****CONTENT AND TECHNOLOGIES OF TEACHING COMPUTER DISCIPLINES IN HIGHER EDUCATION INSTITUTIONS***

***Chairman:*** *Head of the Department of Differential Equations and System Analysis, Associate Professor* ***L.L. Golubeva*** ***Secretary:*** *Assistant of the Department of Web Technologies and Computer Modeling* ***D.V. Filimonov***

***April 26 15:00 - 17:00
Aud. 419, the main building of BSU***

1. ***Zykova T.V., Kytmanov A.A., Khalturin E.A.***ANALYSIS OF THE FORMATION OF COMPETENCIES OF THE CURRICULUM OF THE EDUCATIONAL PROGRAM
2. ***Kovalev E.E., Platonov V.N.*** *MOSCOW STATE PEDAGOGICAL UNIVERSITY, Moscow, Russia*IMPLEMENTATION OF TRENDS IN THE DIGITAL TRANSFORMATION OF SOCIETY AND RESEARCH OF EDTECH STARTUPS FOR INTEGRATION WITH TRAINING COURSES IN THE MASTER'S PROGRAM "DESIGNING THE DIGITAL ENVIRONMENT OF AN EDUCATIONAL ORGANIZATION"
3. ***Imanbazar A., Kim E. R.*** *Turan University, Almaty, Kazakhstan*GAMIFICATION OF THE PROCESS AS AN ELEMENT OF EDUCATIONAL TECHNOLOGY
4. ***Culpepper P. D., Kovalev E. E.*** *MPGU, Moscow, Russia*DIGITAL TECHNOLOGIES FOR THE ANALYSIS OF EDUCATIONAL RESULTS IN THE APPLICATION OF THE METHOD OF GAMIFICATION OF EDUCATION
5. ***Plisyuk G.S., Sakhechidze Y.G., Lavrova O.A.*** *BSU, Minsk, Belarus* DEVELOPMENT OF AN ELECTRONIC INTERACTIVE RESHEBNIK ON MATHEMATICAL ANALYSIS
6. ***Lavrova O.L., Atrokhov K.G., Kushnerov A.V., Cherginets D.N., Shcheglova N.L.*** *BSU, Minsk, Belarus*PYTHON IN THE DISCIPLINES OF THE SPECIALTY "COMPUTER MATHEMATICS AND SYSTEM ANALYSIS
7. ***Prokasheva V. A., Lysak V. V.*** *BSU, Minsk, Belarus*ON DIGITALIZATION IN THE TEACHING OF SOME COURSES OF HIGHER EDUCATION
8. ***Rasolko G. A., Kremen Y. A., Kremen E. V.*** *BSU, Minsk, Belarus*DIGITAL METHODOLOGICAL SUPPORT OF THE EDUCATIONAL CLUSTER OF PROGRAMMING AND INFORMATION TECHNOLOGY COURSES
9. ***Tarasevich Y. G.*** *Yanka Kupala State University, Grodno, Belarus*FREE SOFTWARE AND ITS CONTROLLED PRODUCTION: THE POSSIBILITIES OF HIGHER EDUCATION?
10. ***Filimonov D. V.*** *BSU, Minsk, Belarus*MODERN METHODOLOGIES OF TRAINING SPECIALISTS IN HIGHER EDUCATION
11. ***Shibut I.P.*** *BSU, Minsk, Belarus*THE ROLE OF TEACHING COMPUTER DISCIPLINES IN THE TRAINING OF SPECIALISTS IN INFORMATION AND COMMUNICATION

***27 April 10:30 - 12:30
Aud. 412, the main building of BSU***

1. ***Alensky N. A., Filimonov D. V.*** *BSU, Minsk, Belarus*SOME METHODOLOGICAL ASPECTS OF TEACHING PROGRAMMING METHODS
2. ***Akhremchik O.L.*** *TSTU, Tver, Russia*RUSSIAN MICROCONTROLLER FOR THE WORKSHOP ON MICROPROCESSOR SYSTEMS
3. ***Golubeva L. L., Malevich A. E., Shcheglova N. L.*** *BSU, Minsk, Belarus*ON THE MODEL OF TEACHING "COMPUTER MATHEMATICS"
4. ***Karpovich N.A., Zenko T.A., Konakh V.V., Rubashko N.K.*** *BSU, Minsk, Belarus*METHODOLOGICAL FEATURES OF TEACHING THE DISCIPLINE "DEVELOPMENT OF CROSS-PLATFORM APPLICATIONS"
5. ***Mironova L. I., Nekrasov A. V., Burtsev A. G.*** *UrFU named after B. Yeltsin, Yekaterinburg, Russia*CHALLENGES DIGITALIZATION CONSTRUCTION INDUSTRY: TRAINING FUTURE MASTERS URBAN PLANNER IN RUSSIA
6. ***Nikandrov A. A., Piotrovskaya K. R.,*** *Herzen State Pedagogical University, St. Petersburg, Russia*TASKS OF SPORTS PROGRAMMING FOR THE DISCIPLINE "MACHINE LEARNING**"**
7. ***Pavlovsky V. A.*** *BSU, Minsk, Belarus*TRAINING STUDENTS OF MECHANICAL AND MATHEMATICAL SPECIALTIES IN THE BASICS OF THE TEX COMPUTER LAYOUT SYSTEM
8. ***Prokopenko D. V.*** *BSU, Minsk, Belarus*APPLICATION OF MODERN TEACHING METHODS FOR THE DEVELOPMENT OF MICROSERVICES ON THE EXAMPLE OF THE GOLANG LANGUAGE
9. ***Travin V. V.*** *Kalinkovichi Gymnasium, Kalinkovichi, Belarus*ON THE RELEVANCE OF USING THE GEOGEBRA EDITOR IN THE STUDY OF THE DISCIPLINE "ANALYTICAL GEOMETRY"

*Section 3* ***EDUCATIONAL AND METHODOLOGICAL SUPPORT OF MECHANICAL, MATHEMATICAL AND IT EDUCATION IN THE CONTEXT OF DIGITALIZATION***

*Section 5* ***CURRENT DIRECTIONS AND CONTENT OF TRAINING MASTERS AND GRADUATE STUDENTS OF MECHANICAL, MATHEMATICAL AND IT SPECIALTIES***

***Chairman:*** *Head of Department. Computer Technologies and Systems,
Professor* ***V.V. Kazachenok
Secretary:*** *Associate Professor of the Department of Web Technologies and Computer Modeling, Associate Professor* ***S.A. Barvenov***

***April 26 15:00 -17:00
Aud. 120, the main building of BSU***

1. ***Barvenov S.A.*** *BSU, Minsk, Belarus*ON THE USE OF ARTIFICIAL INTELLIGENCE SYSTEMS IN THE WORK OF A UNIVERSITY TEACHER
2. ***Voronov M.V.*** *MSUPE, Moscow, Russia*METHODOLOGICAL ASPECTS OF PROVIDING INFORMATION AND MATHEMATICAL TRAINING
3. ***Devitsyn A.S., Barvenov S.A.*** *BSU, Minsk, Belarus*ON THE NEED TO TRANSFORM TEACHING METHODS, TAKING INTO ACCOUNT THE NEW CHALLENGES POSED BY GLOBAL DIGITALIZATION
4. ***Ivanova N.A., Kubanskikh O.V.*** *BSU. I.G. Petrovsky, Bryansk, Russia*FROM THE EXPERIENCE OF INTRODUCING DIGITAL TECHNOLOGIES IN THE IMPLEMENTATION OF EDUCATIONAL PROGRAMS
5. ***Kondratieva I.P., Evlanov M.V.*** *APO, State Educational Institution "Secondary School No. 45 of Minsk", Minsk, Belarus*FORMATION OF TECHNICAL AND DESIGN SKILLS OF STUDENTS IN THE PROCESS OF MASTERING PHYSICAL AND MATHEMATICAL DISCIPLINES
6. ***Makarova N.P.*** *Y. Kupala State University, Grodno, Belarus*ON THE RESOURCE PROVISION OF REMOTE CONTROLLED INDEPENDENT WORK OF STUDENTS
7. ***Perez Chernov A.H.*** *BSU, Minsk, Belarus*HOW TO ADAPT GPT-MODELS FOR THE NEEDS OF EDUCATION
8. ***Poznyak Y.V.*** *BSU, Minsk, Belarus*TEACHER'S NOTES ON ACTIVITIES IN THE CONTEXT OF DIGITAL TRANSFORMATION OF MATHEMATICAL EDUCATIONAL PRACTICES
9. ***Sofronova N.V.*** *NGO DPO "Chuvash Regional Branch of the Academy of Informatization of Education", Cheboksary, Russia*DIGITALIZATION OF THE PROCESS OF EDUCATING SCHOOLCHILDREN
10. ***Shpak D.S., Kolotsey M.Y.*** *Y. Kupala State University, Grodno, Belarus*FROM THE EXPERIENCE OF INTRODUCING DIGITAL TECHNOLOGIES IN THE IMPLEMENTATION OF EDUCATIONAL PROGRAMS

***27 April 10:30 -12:30
Aud. 412, the main building of BSU***

1. ***Blinov I.N., Romanchik V.S.*** *BSU, Minsk, Belarus*
COMPUTER-BASED LEARNING IN THE CONTEXT OF DIGITALIZATION OF EDUCATION
2. ***Bogdanova D.A.*** *FRC IU RAS, Bryansk, Russia*ON THE USE OF IMMERSIVE TECHNOLOGIES IN EDUCATION
3. ***Karpovich N.I.*** *BSU, Minsk, Belarus*
FEATURES OF TEACHING MATHEMATICAL ANALYSIS TO STUDENTS OF BSU SPECIALTY "BIOENGINEERING AND BIOINFORMATICS"
4. ***Prokhorov D.I.*** *MGIRO, Minsk, Belarus*
FEATURES OF ADVANCED TRAINING FOR TEACHERS ON THE TOPIC "DIDACTIC DESIGN OF TEACHING MATHEMATICS BASED ON WEB-ORIENTED RESOURCES"
5. ***Abramovich N.Y.*** *LLC "NTLab-Design", Minsk, Belarus*
INTEGRATION OF NEURAL NETWORKS INTO THE PROCESS OF TEACHING UX/UI MASTERS TO DESIGN
6. ***Borisova E.V.*** *TSTU, Tver, Russia*
ACTUALIZATION OF SPECIAL SECTIONS OF HIGHER MATHEMATICS FOR MASTERS OF IT-DIRECTIONS.
7. ***Kalko A.I., Khadarovich O.D*.** *BSU, Baranovichi, Belarus*
AR APPLICATION FOR DISPLAYING MEDIA INFORMATION WITH POSITIONING ON A TARGET LINK
8. ***Romanchik V.S.*** *BSU, Minsk, Belarus*WHAT KIND OF MATH AND COMPUTER EDUCATION IS NEEDED IN IT
9. ***Yankovskaya A.V.*** *State Educational Institution "Lida District Center of Technical Society", Lida, Belarus*
FORMATION OF PROFESSIONAL COMPETENCIES IN HYFLEX PROGRAMMING TRAINING IN THE INSTITUTION OF ADDITIONAL EDUCATION FOR CHILDREN AND YOUTH

*Section 4*  **ACTUAL PROBLEMS OF RESEARCH IN THE FIELD OF MECHANICS, MATHEMATICS AND COMPUTER SCIENCE**

***Chairman:*** *Head of Department. Theoretical and Applied Mechanics,
Professor* ***M.A. Zhuravkov
Secretary:*** *Senior Lecturer of the Department of Bio- and Nanomechanics* ***Y.E. Nagorny***

***April 26 15:00 -17:00
Aud. 406, the main building of BSU***

1. ***Nguyen Le, Mikhasev G. I.*** *BSU, Minsk, Belarus*EQUATIONS OF MOTION OF A TWO-LAYER BEAM-STRIP WITH HIGH-CONTRAST PROPERTIES OF THE MATERIAL
2. ***Liu Youngtao*** *Dalian University of Technology, China*INTEGRATED RESEARCH AND TEACHING ACTIVITIES IN ENGINEERING MECHANICS AT DUT
3. ***Gerasimenko P.V., Verteshev S. M.*** *PGUP****S,*** *St. Petersburg, Russia, PSU, Pskov, Russia*ANALYSIS OF THE LEVELS OF CLOSENESS OF INTERDISCIPLINARY CONNECTIONS THAT ARISE IN THE PREPARATION OF BACHELORS OF THE DIRECTION OF IVT PSKOV STATE UNIVERSITY
4. ***Liu Liu.*** *Dalian University of Technology, China*THE STABILITY ANALYSIS OF TIME-VARYING SYSTEMS IN THE FRAMEWORK OF NEAT ALGEBRA
5. ***Kostyuk N.N., Dick T.A., Metelsky Yu.M., Shinkarev K.A.*** *BSU, Minsk, Belarus*COMBINATORIAL-GRAPH APPROACH TO MODELING THE VOLATILITY OF METAL (I) β-DIKETONATES
6. ***Zyza A.V., Platonova E.S.*** *DonNU, Donetsk, Russia*INTEGRATION OF KIRCHHOFF CLASS EQUATIONS ON ALGEBRAIC INVARIANT RELATIONS
7. ***Drozdov A.A.*** *LLC "Atomicus", Minsk, Belarus*RECOGNITION OF TABULAR DATA USING ARTIFICIAL NEURAL NETWORKS
8. ***Karpenko K.S.*** *BSU, Minsk, Belarus*ALGORITHMS AND TOOLS FOR PARALLELIZATION OF CALCULATIONS IN THE ANALYSIS AND VISUALIZATION OF VECTOR DIGITAL FIELDS
9. ***Klimkovich N.M., Zhang Shiqi*** *BSU, Minsk, Belarus*APPLICATION OF MKE-MDE ALGORITHMS IN MODELING THE VAT OF THE MINED ROCK MASS
10. ***Maznev A.V., Belokon T.V.*** *DonNU, Donetsk, DonNUET, Donetsk, Russia*A CLASS OF SOLUTIONS OF EQUATIONS GYROSTAT MOTIONS UNDER THE ACTION OF POTENTIAL AND GYROSCOPIC FORCES
11. ***Veremeychik A.I., Neroda M.V., Khvisevich V.M., Kholodar B.G.*** *BSTU, Brest, Belarus*SIMULATION OF TESTING SPECIMENS WITH ZONES OF ALTERED MATERIAL STRUCTURE AFTER HEAT TREATMENT
12. ***Denisovets V.V.*** *Social and Humanitarian College of EE "Mogilev State University named after A.A. Kuleshov", Mogilev, Belarus*MULTIMEDIA AND INTERNET TECHNOLOGIES IN THE DEVELOPMENT OF COGNITIVE INDEPENDENCE OF FUTURE TEACHERS OF MATHEMATICS: THE EXPERIENCE OF METHODOLOGICAL TRAINING ON THE EXAMPLE OF STUDYING THE TOPIC "FUNCTION"
13. ***Eliseev D.I.*** *Factory of Innovations and Solutions, Minsk, Belarus*COMPUTER VISION FOR AUTONOMOUS TRANSPORT IN AN URBAN ENVIRONMENT
14. ***Ignatenko M.V.*** *BSU, Minsk, Belarus*ABOUT QUADRATURE GAUSSIAN FORMULAS IN THE CASE OF INTEGRATION OF MATRIX-VALUED FUNCTIONS
15. ***Kushnerov A.V.*** *BSU, Minsk, Belarus*APPLIED PROBLEMS OF MACHINE LEARNING
16. ***Lukyanovich I.R., Kochurko V.A., Filimonov D.V., Kharlanov S.V.*** *BSU, Minsk, Belarus* APPLICATION OF THE MACHINE LEARNING ALGORITHM FOR THE IMPLEMENTATION OF PROJECTS IN THE TRAINING OF WEB DEVELOPERS
17. ***Lyutikova V.S.*** *PM IS of Turan University, Almaty, Kazakhstan*IT-TECHNOLOGIES IN PATTERN RECOGNITION OF EARTHQUAKE SWARMS, AND THEIR MATHEMATICAL CRITERIA

***27 April 10:30 -12:30
Aud. 412, BSU Main Building***

1. ***Yu Guangbin,*** *Harbin Polytechnic University, Harbin, China*RESEARCH ON TOOL PERFOMANCE EVALUATION AND PARAMETER MATCHING BASED ON SHAPE-PERFOMANCE APPLICATION THEORY
2. ***Maznev A.V., Gorbunova Yu.S.*** *DonNU, Donetsk, Emergency Situations Ministry, Donetsk, Russia*ONE CASE OF SEMIREGULAR PRECESSION OF THE FIRST TYPE IN THE PROBLEM OF MOTION OF A NONAUTONOMOUS GYROSTAT
3. ***Morozova I.M., Kemesh O.N., Shamukova N.V.*** *1,2BGATU, 3VA RB, Minsk Belarus*NUMBER THEORY IN BELARUS
4. ***Musafirov E.V.*** *Y. Kupala State University, Grodno, Belarus*PERMISSIBLE PERTURBATIONS OF THREE-DIMENSIONAL AUTONOMOUS POLYNOMIAL SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS
5. ***Nesterovich S.S.*** *BSU, Minsk, Belarus*STABILITY OF A LIQUID CYLINDER IN A FIELD OF CENTRIFUGAL FORCES TAKING INTO ACCOUNT ALTERNATING EXTERNAL PRESSURE
6. ***Nifagin V.A.*** *BSU, FGC, Information Technologies, Minsk, Belarus*INVERSE PROBLEMS OF MULTIDIMENSIONAL INTEGRAL GEOMETRY
7. ***Taranchuk V.B.*** *BSU, Minsk, Belarus*FEATURES AND EXAMPLES OF CLUSTERING IN THE GEODATABASE SYSTEM
8. ***Khodos Y.O.*** *BSU, Minsk, Belarus*METHODS AND TOOLS FOR MODELING, MINING AND INTERPRETATION OF DIGITAL FIELDS
9. ***Makashin D.S., Belan D.Y., Makhov K.A.*** *1OmSTU, 2,3OmGUPS, Omsk, Russia*PROTECTION AGAINST UNAUTHORIZED ACCESS AND CHANGES IN PASSPORTS, ROUTE MAPS IN THE MANUFACTURE OF PARTS AND ASSEMBLIES
10. ***Neskorodev R.N.*** *DonSU, Donetsk, Russia*NUMERICAL-ANALYTICAL METHODOLOGY FOR STUDYING THE STRESS-STRAIN STATE OF A HEAVY ANISOTROPIC MASSIF NEAR VERTICAL WORKINGS
11. ***Primova I.M.*** *FLLC "EPAM Systems", Minsk, Belarus*APPLICATION OF REACTIVE PROGRAMMING IN MICROSERVICE ARCHITECTURE FOR WEB APPLICATIONS WITH THE SPRING FRAMEWORK ECOSYSTEM
12. ***Seledchik E.S.*** *BSU, Minsk, Belarus*METHODOLOGY FOR DEVELOPING A MOBILE SCHEDULE
13. ***Slashchinin O.A.*** *GSU SC RB, Minsk, Belarus*USAGE PROBLEM ENTROPY AS A WAY TO DETERMINE DATA OF INTEREST FOR THE IMPLEMENTATION OF THE TASKS OF LAW ENFORCEMENT AGENCIES