

Ministry of Education and Science of Ukraine
Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University
Vinnytsia National Technical University
Kamianets-Podilskyi Ivan Ohiienko National University
Ivan Franko National University of Lviv
Ukrainian State Dragomanov University
Poltava V.G. Korolenko National Pedagogical University
Lesya Ukrainka Volyn National University
National University of Life and Environmental Sciences of Ukraine
Jan Kochanowski University of Kielce (Poland)
Polytechnic University of Madrid (Spain)
Tallinn University (Estonia)



V International Scientific and Practical Internet Conference
*«Mathematics and Informatics in Science and
Education: Challenges of Modernity»*

May 1-2, 2025, Vinnytsia, Ukraine

CONFERENCE PROGRAM

Vinnytsia – 2025

Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Faculty of Mathematics, Physics and Computer Science, Ostrozkoho str., 32, building № 3, Vinnytsia, 21001. E-mails: kovtonyukmm@vspu.edu.ua, sergiy.bak@vspu.edu.ua. The conference website <https://fmft.vspu.edu.ua/kafedra-matematyky-ta-informatyky/konfmain.html>.

SCIENTIFIC COMMITTEE

Natalia Lazarenko (*chair*, Vinnytsia, Ukraine), **Alla Kolomiets** (*vice-chair*, Vinnytsia, Ukraine), **Serhii Bak** (Vinnytsia, Ukraine), **Tetiana Barbolina** (Poltava, Ukraine), **Mykola Bokalo** (Lviv, Ukraine), **Oleh Buhrii** (Lviv, Ukraine), **Volodymyr Fedorchuk** (Kamianets-Podilskyi, Ukraine), **Roman Hurevych** (Vinnytsia, Ukraine), **Kaja Mädamürk** (Tallinn, Estonia), **Yulia Meish** (Kyiv, Ukraine), **Iryna Khomyuk** (Vinnytsia, Ukraine), **Oksana Klochko** (Vinnytsia, Ukraine), **Vitalii Klochko** (Vinnytsia, Ukraine), **Mariana Kovtoniuk** (Vinnytsia, Ukraine), **Ivan Konet** (Luts'k, Ukraine), **Grzegorz Łysik** (Kielce, Poland), **David Luengo** (Madrid, Spain), **Volodymyr Mykhalevych** (Vinnytsia, Ukraine), **Vira Petruk** (Vinnytsia, Ukraine), **Mykola Pratsiovytyi** (Kyiv, Ukraine).

ORGANIZING COMMITTEE

Mariana Kovtoniuk (*chairman*, Vinnytsia, Ukraine), **Serhii Bak** (*vice-chairman*, Vinnytsia, Ukraine), **Halyna Kovtoniuk** (*conference secretary*, Vinnytsia, Ukraine), **Ivanna Leonova** (*conference secretary*, Vinnytsia, Ukraine), **Tetiana Barbolina** (Poltava, Ukraine), **Oleh Buhrii** (Lviv, Ukraine), **Kateryna Heseleva** (Kamianets-Podilskyi, Ukraine), **Svitlana Kyrylashchuk** (Vinnytsia, Ukraine), **Oksana Klochko** (Vinnytsia, Ukraine), **Olena Kosovets** (Vinnytsia, Ukraine), **Yaroslav Krupskyi** (Vinnytsia, Ukraine), **Yulia Meish** (Kyiv, Ukraine), **Volodymyr Mykhalevych** (Vinnytsia, Ukraine), **Olena Soia** (Vinnytsia, Ukraine), **Liubov Tiutiun** (Vinnytsia, Ukraine), **Viktor Shchyrba** (Kamianets-Podilskyi, Ukraine).

CONFERENCE PROGRAM

Thursday, May 1, 2025, PLENARY SESSION (mixed format)

8:30 – 09:15 **Registration (offline) / Connection (online)**

09:15 – 09:40 **Opening of the Conference**

09:40 – 13:20 **Plenary talks**

Friday, May 2, 2025, SECTION SESSIONS (online)

09:45 – 10:00 **Connection (online)**

10:00 – 13:00 **Section talks**

13:00 – 14:00 **Lunch break**

14:00 – 14:30 **Closing of the Conference**

There will be plenary talks (duration 20 min.) and section talks (duration 15 min., i.e. 10 min. talk + 5 min. questions).

Online (Google Meet connection)

PLENARY SESSION <https://meet.google.com/pap-kugn-oij>

SECTION SESSIONS

SECTION A <https://meet.google.com/dtu-ghmk-zpw>

1. Modern problems of mathematics
2. Modern problems of computer science
3. Mathematical and computer modeling

SECTION B <https://meet.google.com/fiz-kpcs-hqt>

4. Creation of educational environment in mathematics and computer science in higher education

5. Monitoring of the quality of education: tools and technologies

6. Modern computer technologies in teaching mathematics and computer science

SECTION C <https://meet.google.com/jwf-zvzg-ijb>

7. Methods of teaching mathematics and computer science in secondary education

Closing of the Conference <https://meet.google.com/pap-kugn-oij>

PLENARY SESSION
Thursday, May 1, 2025

mixed format:

offline (Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University,
Ostrozko str., 32, building № 1, Educational Hub «NotBox»)
and **online** (Google Meet connection <https://meet.google.com/pap-kugn-oij>)

Chair Natalia Lazarenko, Dr. Sc.

Vice-chair Alla Kolomiets, Dr. Sc.

Secretary Ivanna Leonova, M. Sc.

1. 09:15– **Natalia Lazarenko, Dr. Sc.**, rector of Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
09:20 WELCOME SPEECH TO THE PARTICIPANTS OF THE CONFERENCE
2. 09:20– **Alla Kolomiets, Dr. Sc.**, vice-rector for scientific work of Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
09:25 WELCOME SPEECH TO THE PARTICIPANTS OF THE CONFERENCE
3. 09:25– **Mariana Kovtoniuk, Dr. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
09:35 WELCOME SPEECH TO THE PARTICIPANTS OF THE CONFERENCE
4. 09:35– **Alina Voievoda, Cand. Sc.**, dean of the Faculty of Mathematics, Physics and Computer Science, Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
09:40 WELCOME SPEECH TO THE PARTICIPANTS OF THE CONFERENCE
5. 09:40– **Dmytro Bobyliev, Cand. Sc.**, Kryvyi Rih State Pedagogical University, Kryvyi Rih, Ukraine
10:00 LEAN AS A TOOL FOR INTERACTIVE THEOREM PROVING IN THE PROFESSIONAL TRAINING OF MATHEMATICS TEACHERS
6. 10:00– **Eve Kikas, Ph. D.**, Tallinn University, Tallinn, Estonia
10:20 SELF-REGULATED LEARNING AND MATH SKILLS. ESTONIAN EXPERIENCE IN ASSESSING SELF-REGULATED COMPETENCE
7. 10:20– **Liubov Tiutiun, Cand. Sc., Olena Kosovets, Cand. Sc., Olena Soia, Cand. Sc., Mariana Kovtonyuk, Dr. Sc.** Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
10:40 MATHEMATICAL LANDSCAPE PARKS AS AN ENVIRONMENT FOR MODELING RESEARCH PROJECTS, SCIENTIFIC RESEARCH AND POPULARIZATION OF MATHEMATICS
8. 10:40– **Kaja Mädamürk, Ph. D.**, Tallinn University, Tallinn, Estonia

- 11:00 ASSESSMENT OF MATH COMPETENCE IN ESTONIA
9. 11:00– ***Volodymyr Mykhalevych, Dr. Sc., Oksana Tiutiunnyk, Cand. Sc.,***
 11:20 ***Yurii Dobraniuk, Cand. Sc.,*** Vinnytsia National Technical University,
 Vinnytsia, Ukraine
 SPECIFIC FEATURES OF REDUCING A VARIATIONAL
 PROBLEM OF HEREDITARY DAMAGE THEORY TO A
 NONLINEAR PROGRAMMING TASK
10. 11:20– ***Triinu Kilp-Kabel, M. A.,*** Tallinn University, Tallinn, Estonia
 11:40 ESTONIAN GRADE NINE NATIONAL MATH EXAM RESULTS:
 ITS RELATIONSHIP WITH INTEREST AND NOVEL MATH
 SKILLS
11. 11:40– ***Serhii Bak, Dr. Sc., Halyna Kovtoniuk, Cand. Sc.*** Vinnytsia Mykhailo
 12:00 Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
 ON TRAVELING WAVES IN FERMI–PASTA–ULAM-TYPE
 SYSTEMS WITH NONLOCAL INTERACTION ON A 2D-
 LATTICE
12. 12:00– ***Hardi Sigus, M. A.,*** Tallinn University, Tallinn, Estonia
 12:20 BASIC PSYCHOLOGICAL NEEDS AND CURIOSITY RELATED
 TO SCIENCE SUBJECTS IN ONE SCHOOL SETTING IN
 ESTONIA
13. 12:20– ***Katrina Nurmoja, M. A.,*** Tallinn University, Tallinn, Estonia
 12:40 BASIC PSYCHOLOGICAL NEEDS AND CURIOSITY RELATED
 TO SCIENCE SUBJECTS IN ONE SCHOOL SETTING IN
 ESTONIA
14. 12:40– ***Vasyl Abramchuk, Cand. Sc.,*** Vinnytsia Mykhailo Kotsiubynskyi
 13:00 State Pedagogical University, Vinnytsia, Ukraine, ***Ihor Abramchuk,***
 Vinnytsia National Technical University, Vinnytsia, Ukraine
 MATHEMATICAL MODELS IN DIGITAL INFORMATION
 CODING TASKS

SECTION SESSIONS

SECTION A

1. MODERN PROBLEMS OF MATHEMATICS

2. MODERN PROBLEMS OF COMPUTER SCIENCE

3. MATHEMATICAL AND COMPUTER MODELING

Friday, May 2, 2025, online (Google Meet connection)

<https://meet.google.com/dtu-ghmk-zpw>

Chair Serhii Bak, Dr. Sc.

Secretary Halyna Kovtoniuk, Cand. Sc.

1. 10:00– **Zlata Bondarenko, Cand. Sc., Svitlana Kyrylashchuk, Cand. Sc.,**
10:15 **Vitaly Klochko, Dr. Sc.,** Vinnytsia National Technical University,
Vinnytsia, Ukraine
OPTIMIZATION OF HEATING SYSTEMS BASED ON IOT DATA
ANALYSIS AND FOURIER TRANSFORM
2. 10:15– **Petro Boyko,** Lviv Polytechnic National University, Lviv, Ukraine,
10:30 **Halyna Lopushanska, Dr. Sc.** Ivan Franko National University of
Lviv, Lviv, Ukraine
SOURCE INVERSE PROBLEM IN SPACES OF BESSEL
POTENTIALS
3. 10:30– **Oleh Buhrii, Dr. Sc., Anastasiia Holovenko,** Ivan Franko National
10:45 University of Lviv, Lviv, Ukraine
NUMERICAL APPROXIMATION OF SOLUTIONS OF
STOCHASTIC DIFFERENTIAL EQUATIONS
4. 10:45– **Dobraniuk Yurii, Cand. Sc., Blashchuk Nadiya, Barbaliuk Maksym,**
11:00 Vinnytsia National Technical University, Vinnytsia, Ukraine
APPLICATION SKM MAPLE TO REDUCE THE QUADRATIC
FORM OF EXPRESSION TO THE CANONICAL FORM
5. 11:00– **Taras Goy, Cand. Sc.,** Vasyl Stefanyk Precarpathian National
11:15 University, Ivano-Frankivsk, Ukraine
SOME PROPERTIES OF HIGHER-ORDER PELL NUMBERS VIA
TOEPLITZ – HESSENBERG DETERMINANTS
6. 11:15– **Kateryna Heseleva, Cand. Sc.,** Kamianets-Podilskyi Ivan Ohienko
11:30 National University, Kamianets-Podilskyi, Ukraine
APPLICATION OF A SINGLE VARIANT OF THE
COLLOCATIONAL-ITERATIVE METHOD FOR INTEGRO-
FUNCTIONAL EQUATIONS WITH SMALL NONLINEARITY
7. 11:30– **Uliana Hudyma, Cand. Sc., Vasyl Gnatyuk, Cand. Sc.,** Kamianets-
11:45 Podilskyi Ivan Ohienko National University, Kamianets-Podilskyi,

Ukraine

THE CRITERION OF EXTREMALITY OF AN ELEMENT FOR THE PROBLEM OF FINDING A GENERALIZED STEINER'S POINT OF SEVERAL CLOSED BALLS IN A LINEAR NORMED SPACE WITH RESPECT TO A CONVEX SET OF CLOSED BALLS IN THIS SPACE

8. 11:45–12:00 **Mykola Lukin, Anatolii Yakunin, Cand. Sc.**, O. M. Beketov National University of Urban Economy in Kharkiv, Kharkiv, Ukraine
GIELIS SUPERCURVES – A TECHNOLOGICAL TOOL FOR MODELING COMPLEX SHAPES
9. 12:00–12:15 **Tetiana Pylypiuk, Cand. Sc.**, Kamianets-Podilskyi Ivan Ohienko National University, Kamianets-Podilskyi, Ukraine
DATA ANALYTICS AND VISUALIZATION IN POWER BI

Poster talks

10. **Volodymyr Mykhalevych, Dr. Sc.**, Vinnytsia National Technical University, Vinnytsia, Ukraine; **Mykola Kolisnyk**, Vinnytsia National Agrarian University, Vinnytsia, Ukraine; **Andrii Shtuts, Cand. Sc.**, Vinnytsia National Agrarian University, Vinnytsia, Ukraine
MATHEMATICAL MODELING OF DEFORMATION TRAJECTORIES OF MACROPARTICLES IN HAZARDOUS ZONES OF WORKPIECES DURING FLOW FORMING
11. **Victor Shchyrba, Cand. Sc.**, Kamianets-Podilskyi Ivan Ohienko National University, Kamianets-Podilskyi, Ukraine, **Maryna Miastkovska, Cand. Sc.**, Kamianets-Podilskyi Ivan Ohienko National University, Kamianets-Podilskyi, Ukraine
MULTIPROCESSING METHODS FOR FORMING OPTIMIZATION ROUTES USING THE ANT COLONY ALGORITHM

SECTION B

4. CREATION OF EDUCATIONAL ENVIRONMENT IN MATHEMATICS AND COMPUTER SCIENCE IN HIGHER EDUCATION

5. MONITORING OF THE QUALITY OF EDUCATION: TOOLS AND TECHNOLOGIES

6. MODERN COMPUTER TECHNOLOGIES IN TEACHING MATHEMATICS AND COMPUTER SCIENCE

Friday, May 2, 2025, Google Meet connection

<https://meet.google.com/fiz-kpcs-hqt>

Chair Mariana Kovtonyuk, Dr. Sc.

Secretary Olena Soia, Cand. Sc.

1. 10:00– **Vasyl Abramchuk, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi
10:15 State Pedagogical University, Vinnytsia, Ukraine; **Dmytro Babiuk**,
Golodkiv gymnasium of Khmilnyk City Council, Vinnytsia region,
Ukraine; **Liubov Tiutiun, Cand. Sc.**, Vinnytsia Mykhailo
Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
USING ARTIFICIAL INTELLIGENCE CAPABILITIES IN
TEACHING AND ASSESSING THE QUALITY OF KNOWLEDGE
IN MATHEMATICS
2. 10:15– **Tetiana Barbolina, Dr. Sc.**, Poltava V. G. Korolenko National
10:30 Pedagogical University, Poltava, Ukraine
IMPLEMENTING STUDENT-CENTERED AND DIGITAL
LEARNING METHODS AT POLTAVA NATIONAL
PEDAGOGICAL UNIVERSITY WITHIN THE ERASMUS+ BOOST
PROJECT
3. 10:30– **Oleksandr Dovbnia**, Drahomanov Ukrainian State University, Kyiv,
10:45 Ukraine
VIDEO AS A MEANS OF FUNDAMENTALIZING THE
TEACHING OF COMPUTER SCIENCE DISCIPLINES
4. 10:45– **Lesya Haybun, Olga Kravchuk, Cand. Sc.**, Lesya Ukrainka Volyn
11:00 National University, Lutsk, Ukraine
LIVEWORKSHEETS – NEW OPPORTUNITIES FOR TEACHERS
AND STUDENTS
5. 11:00– **Yulia Ilnitska**, Vinnytsia Cooperative Institute, Vinnytsia, Ukraine;
11:15 **Victoria Medvedska**, Vinnytsia Vocational College of the National
University of Food Technologies, Vinnytsia, Ukraine
INNOVATIONS IN COMPUTER SCIENCE EDUCATION
THROUGH BLOCKCHAIN TECHNOLOGY

6. 11:15–11:30 ***Halyna Kashkanova, Cand. Sc.,*** Vinnytsia National Technical University, Vinnytsia, Ukraine
DIDACTIC BASIS OF THE COMPETENCY-BASED APPROACH TO THE FORMATION OF PROFESSIONAL ORIENTATION WHEN STUDYING THE COURSE OF FUNDAMENTAL DISCIPLINES IN A TECHNICAL INSTITUTION OF HIGHER EDUCATION
7. 11:30–11:45 ***Iryna Khomyuk, Dr. Sc., Victor Khomyuk, Cand. Sc.,*** Vinnytsia National Technical University, Vinnytsia, Ukraine
MULTIMEDIA TECHNOLOGIES IN THE PROCESS OF TEACHING HIGHER MATHEMATICS
8. 11:45–12:00 ***Maryana Kovtonyuk, Dr. Sc., Olena Soia, Cand. Sc.,*** Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
MODERN ASPECTS OF MATHEMATICS TEACHING METHODS IN THE PROFESSIONAL TRAINING OF FUTURE MATHEMATICS TEACHERS
9. 12:00–12:15 ***Victoria Medvedska, Victoria Maranchak,*** Vinnytsia Vocational College of the National University of Food Technologies
VIRTUAL AND AUGMENTED REALITY IN EDUCATION: INNOVATIVE APPROACHES TO TEACHING EXACT SCIENCES
10. 12:15–12:30 ***Oleksii Panasenko, Cand. Sc.,*** Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
DIGITAL ADMINISTRATION AND MONITORING OF FACULTY ACTIVITIES USING GOOGLE SHEETS AND PYTHON
11. 12:30–12:45 ***Kateryna Rumyantseva, Cand. Sc.,*** Vinnytsia Educational and Scientific Institute of Economics West Ukrainian national university, Vinnytsia, Ukraine
THE EFFECTIVENESS OF THE USE OF MODERN SOFTWARE IN THE MATHEMATICAL TRAINING OF FUTURE ECONOMISTS

Poster talks

12. ***Vitalii Klochko, Dr. Sc.,*** Vinnytsia National Technical University, Vinnytsia, Ukraine; ***Oksana Klochko, Dr. Sc.,*** Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
FUNCTIONS OF CONSTRUCTIVE MATHEMATICS TEACHING USING DIGITAL TECHNOLOGIES
13. ***Alona Kolomiiets, Dr. Sc., Vitaly Klochko, Dr. Sc., Kyrylashchuk Svitlana, Cand. Sc.,*** Vinnytsia National Technical University, Vinnytsia, Ukraine
FUNCTIONAL APPROACH TO THE FUNDAMENTALIZATION OF MATHEMATICAL TRAINING OF STUDENTS OF TECHNICAL SPECIALTIES
14. ***Alona Kolomiiets, Dr. Sc., Mykhailo Lysyi, Cand. Sc., Maya***

Kovalchuk, Dr. Sc., Vinnytsia National Technical University,
Vinnytsia, Ukraine

THE TASK APPROACH IS ONE OF THE CONCEPTUAL
APPROACHES TO FUNDAMENTALIZING THE
MATHEMATICAL TRAINING OF STUDENTS OF TECHNICAL
SPECIALTIES

15. **Olga Kravchuk, Cand. Sc.,** Lesya Ukrainka Volyn National
University, Lutsk, Ukraine

ANALYTICAL GEOMETRY AS A MEANS OF FORMING
PROFESSIONAL-PEDAGOGICAL COMPETENCES OF FUTURE
MATHEMATICS TEACHERS

16. **Olga Shvai, Cand. Sc.,** Lesya Ukrainka Volyn National University,
Lutsk, Ukraine

CREATING TASKS OF PATRIOTIC CONTENT AS AN ELEMENT
OF FUTURE TEACHERS PROFESSIONAL TRAINING

SECTION C

7. METHODS OF TEACHING MATHEMATICS AND COMPUTER SCIENCE IN SECONDARY EDUCATION

Friday, May 2, 2025, Google Meet connection

<https://meet.google.com/jwf-zvzg-jfb>

Chair Yaroslav Krupskyi, Cand. Sc.

Secretary Alina Klimishyna, Cand. Sc.

1. 10:00– **Dmytro Hrytsaiuk**, Whaleapp LTD, Kyiv, Ukraine, Vinnytsia
10:15 Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia,
Ukraine; **Olena Soia, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi
State Pedagogical University, Vinnytsia, Ukraine
THE ROLE OF THREE-DIMENSIONAL MODELING IN THE
DEVELOPMENT OF CRITICAL AND SPATIAL THINKING OF
STUDENTS
2. 10:15– **Tetyana Ivatsko, Ph. D.**, State Vocational Education Institution
10:30 "Higher Vocational School №7 of Vinnytsia", Ukraine; **Yaroslav
Krupskyi, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi State
Pedagogical University, Vinnytsia, Ukraine
APPLICATION OF FORMATIVE ASSESSMENT
METHODOLOGY IN COMPUTER SCIENCE LESSONS DURING
THE FORMATION OF PROFESSIONAL COMPETENCES OF
STUDENTS
3. 10:30– **Alina Klimishyna, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi State
10:45 Pedagogical University, Vinnytsia, Ukraine, lyceum of the village of
Ivaniv, Ukraine
DEVELOPING PROBABILISTIC THINKING IN STUDENTS
DURING THE STUDY OF MATHEMATICS IN GENERAL
SECONDARY EDUCATION INSTITUTIONS
4. 10:45– **Olga Kolomiets**, Center for Professional Development of Teachers of
11:00 Kalynivka City Council, Vinnytsia Oblast, Kalynivka, Ukraine
DEVELOPMENT OF SCIENTIFIC AND TECHNICAL DIRECTION
IN THE EDUCATIONAL AND METHODOLOGICAL ACTIVITIES
OF LYCEUMS THROUGH STEM EDUCATION
5. 11:00– **Olena Kosovets, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi State
11:15 Pedagogical University, Vinnytsia, Ukraine
SPECIFICS OF TEACHING BLIND STUDENTS TO PROCESS
TABLE DATA
6. 11:15– **Olena Kosovets, Cand. Sc., Volodymyr Krupka**, Vinnytsia Mykhailo
11:30 Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
GAME-BASED LEARNING METHODS IN COMPUTER SCIENCE

LESSONS AT A VOCATIONAL SCHOOL

7. 11:30–11:45 **Olga Kravchuk, Cand. Sc., Anna Aleksandruk**, Lesya Ukrainka Volyn National University, Lutsk, Ukraine
INFORMATION AND COMMUNICATION TECHNOLOGIES AS A MEANS OF INCREASING MOTIVATION IN MATHEMATICS LESSONS IN 5TH GRADE
8. 11:45–12:00 **Olga Kravchuk, Cand. Sc., Sofiia Moroz**, Lesya Ukrainka Volyn National University, Lutsk, Ukraine
USE OF INNOVATIVE TECHNOLOGIES WHEN STUDYING TOPIC «EQUATION OF A CIRCLE» AT SCHOOL
9. 12:00–12:15 **Olga Kravchuk, Cand. Sc., Angelina Panasiuk**, Lesya Ukrainka Volyn National University, Lutsk, Ukraine
COMPARATIVE ANALYSIS OF METHODOLOGICAL APPROACHES TO THE STUDY OF ELEMENTS OF ANALYTICAL GEOMETRY IN ZZSO AND HIGHER SCHOOL USING ICT: THE TOPIC «PLANE EQUATIONS»
10. 12:15–12:30 **Pavlo Shevchuk**, Horodkivka Lyceum No. 2, Horodkivka Village Council, Tulchyn District, Vinnytsia Region; **Olena Soia, Cand. Sc.**, Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
SYSTEM APPROACH TO MODELING INDIVIDUAL TRAJECTORY OF INFORMATICS TEACHER'S PROFESSIONAL DEVELOPMENT

Poster talks

11. **Tetiana Dumanska, Cand. Sc.**, Kamianets-Podilskyi Ivan Ohiienko National University, Ukraine
THE PLACE OF INTERACTIVE WORDWALL ACTIVITIES IN A MATHEMATICS LESSON
12. **Yurii Hera**, Secondary School No. 97, Lviv, Ukraine
FOSTERING CREATIVITY IN SPECIALIZED SECONDARY SCHOOL STUDENTS THROUGH ACTIVE LEARNING IN COMPUTER SCIENCE CLASSES
13. **Volodymyr Korolskyi, Cand. Sc.**, Kryvyi Rih State Pedagogical University, Kryvyi Rih, Ukraine
ON THE METHODS OF CALCULATING THE NUMBER π
14. **Olga Kravchuk, Cand. Sc., Anna Nykytiuk**, Lesya Ukrainka Volyn National University, Lutsk, Ukraine
DIFFERENTIATED APPROACH TO TEACHING DIFFERENTIAL EQUATIONS IN SPECIALIZED CLASSES
15. **Alina Voievoda, Cand. Sc., Mykhailo Prytuliak**, Vinnytsia Mykhailo Kotsiubynskyi State Pedagogical University, Vinnytsia, Ukraine
PSYCHOLOGICAL AND PEDAGOGICAL PREREQUISITES FOR THE USE OF COMPUTER DIDACTIC GAMES IN THE PROCESS OF TEACHING MATHEMATICS

V International Scientific and Practical Internet Conference
«*Mathematics and Informatics in Science and Education: Challenges of Modernity*»

May 1-2, 2025, Vinnytsia, Ukraine

CONFERENCE PROGRAM

Compiled by Serhii Bak and Halyna Kovtoniuk