ЮБИЛЕЙНА МЕЖДУНАРОДНА НАУЧНА КОНФЕРЕНЦИЯ

"СИНЕРГЕТИКА И РЕФЛЕКСИЯ В ОБУЧЕНИЕТО ПО МАТЕМАТИКА"

посветена на 75 г. на проф. Сава Гроздев 22 – 24 октомври 2025, Пампорово

НАУЧНА ПРОГРАМА

Организатор:

Факултет по математика и информатика при Пловдивски университет "П. Хилендарски"

SREM 2025 $e^{i\pi}+1=0$

ANNIVERSARY INTERNATIONAL SCIENTIFIC CONFERENCE

"SYNERGETICS AND REFLECTION IN MATHEMATICS EDUCATION"

Dedicated to Prof. Sava Grozdev's 75th Anniversary October 22 – 24, 2025, Pamporovo

SCIENTIFIC PROGRAM

Organizer
Faculty of Mathematics and Informatics
at the Paisii Hilendarski University of Plovdiv

22.10.2025 • HALL A

- 16:00 16:30 Official opening of the conference
- 16:30 17:00 Anniversaries

23.10.2025 • HALL A

- Vera Shopova, Ivan Dimitrov, ARTIFICIAL INTELLIGENCE AND SCRATCH AS A MEANS OF DEVELOPING MATHEMATICAL LITERACY IN
- 5[™] GRADE
- Valya Arnaudova, Todorka Terzieva, DEVELOPMENT OF SELF-4SSESSMENT SKILLS THROUGH COMPUTER-BASED ADAPTIVE
 - **TESTING**
- Elena Todorova, Todorka Terzieva, Evgeniya Angelova, REFLECTIVE
- EDUCATIONAL PRACTICES IN THE TRAINING OF STUDENTS, FUTURE TEACHERS OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
- Maria Vasileva, Georgi Penchev, INTEGRATING RELIABILITY MODELING INTO VERIFICATION AND VALIDATION EDUCATION
- 10:30 10:40 Coffee Break
- Invited talk: Preslav Nakov, TOWARDS TRULY OPEN, LANGUAGE10:40-11:00 SPECIFIC, SAFE, FACTUAL, AND SPECIALIZED LARGE LANGUAGE
 MODELS
- Simeon Monov, Emre Myumyun, Nikolay Pavlov, A TWO-TIER
 ADAPTIVE QUESTION-GENERATION FRAMEWORK FOR
 LONGITUDINAL SELF-DIRECTED LEARNING
- Todor Atanasov, Asya Polyankova, Todorka Terzieva, Al-INFUSED

 11:15-11:30

 MICROLEARNING FOR MATHEMATICAL REASONING: AN
 INTERDISCIPLINARY CLASSROOM STUDY
- Ventsislav Dilyanov, Gergana Koleva, APPLICATION OF PROBLEM-BASED METHOD IN TRAINING OF STUDENTS IN INFORMATION TECHNOLOGY
- Muharem Mollov, EXPERT EVALUATION A COMPONENT OF COMPETENCY-BASED EDUCATION
- 12:00 14:00 Lunch Break
- Aleksandar Ivanov, Kosta Garov, Stefka Aneva, SURVEY OF STUDENTS' INTEREST IN LEARNING DEVELOPMENT AND DESIGN OF MOBILE APPLICATIONS IN ANDROID ENVIRONMENT WITH JAVA
- Sofia Vasileva, Stefka Aneva, Kosta Garov, APPLICATION OF PROJECT-BASED LEARNING IN INFORMATION TECHNOLOGY AND GEOGRAPHY AND ECONOMICS CLASSES FOR 9TH GRADE
- Stefka Aneva, Elena Todorova, METHODOLOGICAL ASPECTS FOR DEVELOPING REFLECTIVE SKILLS THROUGH THE STUDY OF SCRIPTING LANGUAGES IN MIDDLE SCHOOL
- Konstantinos Koroxenos, ROBOTICS AS A TOOL FOR INTERDISCIPLINARY LEARNING TRAINING FOR PRIMARY SCHOOL TEACHERS
- 15:00 15:20 Coffee Break

SREM 2025

15:20 - 15:40

$e^{i\pi} + 1 = 0$

	DEVELOPING A STEAME TEACHER FACILITATOR REGIONAL ACADEMY
15:45 - 16:00	Ivaylo Staribratov, TRAINING FUTURE TEACHERS IN A STEM APPROACH
	Todorka Glushkova, Marta Teofilova, Vanya Ivanova, Boyan Zlatanov, Dobrinka Boykina, MATHEMATICS ACROSS ART,
16:00 - 16:15	ENGINEERING, AND TECHNOLOGY: A STEAME TRAINING APPROACH FOR STUDENT AND IN-SERVICE TEACHERS
16:15 - 16:30	Veneta Tabakova-Komsalova, Stanimir Stoyanov, MATHEMATICAL FOUNDATIONS OF SUBSYMBOLIC ARTIFICIAL INTELLIGENCE
16:30 - 17:00	Coffee Break
17:00-18:30	Discussion: IMPROVING THE LEVEL OF PREPARATION OF PUPILS, STUDENTS AND TEACHERS FOR HIGH ACHIEVEMENTS IN THE FIELD OF MATHEMATICS, INFORMATICS, INFORMATION TECHNOLOGIES, AND MATHEMATICAL LINGUISTICS
23.10.2025 • HALL B	
09:15 - 09:30	Dobrinka Boykina, ON THE DEVELOPMENT OF STUDENTS' CRITICAL AND REFLECTIVE THINKING IN MATHEMATICS EDUCATION
	Tatyana Sergeeva, Maria Shabanova, Nina Pronina, RUSSIAN-
09:30 - 09:45	BULGARIAN COOPERATION IN THE FIELD OF WORKING WITH MATHEMATICALLY GIFTED CHILDREN AND TALENTED YOUTH
09:45 - 10:00	Ivan Shotlekov, Iliyana Shotlekova, THE COGNITIVE PARADOX: WHY MATHEMATICS MAJORS STRUGGLE WITH ELEMENTARY MATH
07.40 - 10.00	PUZZLES
10:00 - 10:15	MATHEMATICAL AND FINANCIAL LITERACY
10:15 - 10:30	Asya Polyankova, OVERVIEW OF LINGUISTICS OLYMPIADS IN THE INTERNATIONAL AND BULGARIAN CONTEXT
10:30 - 10:45	
10:45 - 11:00	Denislav Marinov, Dobrinka Milusheva-Boykina, INTERACTIVE LESSON ON THE TOPIC "DERIVATIVE OF A FUNCTION"
11:00 - 11:15	Ivanka Vasileva, DIGITAL TOOLS WITH ARTIFICIAL INTELLIGENCE PADLET AND DIFFIT IN MATHEMATICS TEACHING FOR STUDENTS WITH DIFFERENT LEARNING STYLES IN THE 5TH GRADE
11:15 - 11:30	Milcho Ivanov, Elena Marinova, INVARIANTS IN 5 [™] GRADE
11:30 - 11:45	Diana Stefanova, Tatyana Madzharova, SOME PROBLEMS OF FUNCTIONAL EQUATIONS
11:45 - 12:00	Boyko Bantchev, VECTOR ALGEBRA – AN INDISPENSABLE TOOL FOR GEOMETRY
12:00 - 14:00	
14:00 - 14:15	Daniela Georgieva, Damyana Gandeva, Marta Teofilova, CONIC SECTIONS IN EXTRACURRICULAR ACTIVITIES IN MATHEMATICS
14:15 - 14:30	Milen Naydenov, Veselin Nenkov, SOME PROBLEMS ON GEOMETRIC PROBABILITY
14:30 - 14:45	,
14:45 - 15:00	Tatyana Madzharova, Nely Baeva, SOME APPLICATIONS OF THE DEFINITE INTEGRAL IN PHYSICS

Invited talk: Gregoris Makrides, STEAME FUTURE IS HERE: DEVELOPING A STEAME TEACHER FACILITATOR REGIONAL ACADEMY

15:00 - 15:15 Coffee Break

Galina Momcheva, Todorka Glushkova, VISUALIZATIONS: THE 15:15 - 15:30

SYNERGY OF DIGITAL AND MATHEMATICAL COMPETENCIES

Penka Karadzhova, A TECHNOLOGICAL MODEL FOR PROVIDING 15:30 - 15:45 SYNERGETIC SUCCESSION IN MATHEMATICS EDUCATION

Teodora Noncheva, SUMMER STEM CAMP AS AN EFFECTIVE MODEL

15:45 - 16:00 FOR INCREASING STUDENTS' MOTIVATION AND INTEREST IN

NATURAL SCIENCES AND MATHEMATICS

Rosen Nikolaev, Tanka Milkova, SOME PROBLEMS AND 16:00 - 16:15 DISADVANTAGES OF USING ARTIFICIAL INTELLIGENCE IN

MATHEMATICS EDUCATION

Mark Applebaum, Ofer Azar, Alisa Voslinsky, RISK, CONFIDENCE, 16:15 - 16:30

AND EQUITY IN MATHEMATICS COMPETITIONS

16:30 - 17:00 Coffee Break

24.10.2025 • HALL B

09:30 - 11:30 Discussion: ETHICS, EQUITY, AND AI: WHO SHAPES THE RULES?

SREM 20

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Scientific project FP25-FMI-010 "Innovative interdisciplinary research in the field of informatics, mathematics, and pedagogy" of the Scientific Fund of the Paisii Hilendarski University of Ploydiy, Bulgaria:

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In cooperation with Evrika Foundation.

Hall A is the big conference hall on Floor 1. Clarification Hall B is the small conference hall on Floor 5 next to Lobby.