



*Anniversary International
Scientific Conference*

**“INFORMATICS,
MATHEMATICS, EDUCATION
AND THEIR APPLICATIONS”**

28 – 30 October 2026, Plovdiv, Bulgaria

Organiser

Faculty of Mathematics and Informatics
Paisii Hilendarski University of Plovdiv

Scientific Program

28.10.2026 • HALL A

14:00 - 14:30

OFFICIAL OPENNING

14:30 - 14:50

Anniversary talk: Anton Iliev, 90TH ANNIVERSARY OF THE BIRTH OF ACADEMICIAN IVAN PETKOV POPCHEV: A LIFE DEDICATED TO SCIENCE AND KNOWLEDGE

14:50 - 15:10

Anniversary talk: Anton Iliev, 90TH ANNIVERSARY OF THE BIRTH OF ASSOC. PROF. D.SC. ILIYA PETROV ILIEV: A LASTING MARK ON THE BULGARIAN SCHOOL OF NONHOLONOMIC SYSTEMS MECHANICS

15:10 - 15:30

Anniversary talk: Anton Iliev, PROFESSOR NIKOLAY KYURKCHIEV AT 80: HIS MULTIDISCIPLINARY SCIENTIFIC LEGACY

15:30 - 15:50

Anniversary talk: Emil Delinov, "I AM HAPPY I CHOSE INFORMATICS": PROFESSOR AVRAM ESKENAZI AT 80

15:50 - 16:10

Anniversary talk: Asen Rahnev, 90TH ANNIVERSARY OF THE BIRTH OF RUMEN GROZDANOV, FOUNDER OF THE PLOVDIV MATHEMATICS SCHOOL

16:10 - 16:30

Anniversary talk: Anton Iliev, Elena Todorova, Evgeniya Angelova, PROF. ASEN RAHNEV AT 70: RESEARCHER, VISIONARY, ACADEMIC LEADER

16:30 - 16:50

Plenary talk (online): Ivan Popchev

29.10.2026 • HALL B

09:30 - 10:00

Plenary talk: Nedyu Popivanov, DID OPENAI SOLVE THE NAVIER-STOKES MILLENNIUM PROBLEM? OPINIONS OF TERENCE TAO AND OTHERS

10:00 - 10:15

Mancho Manev, Veselina Tavkova, Viktoria Kuncheva, TWO LIE GROUPS WITH PI-STRUCTURES THAT EXCHANGE THEIR MEMBERSHIP IN TWO BASIC CLASSES

10:15 - 10:30

Petar Kopanov, MODELLIND STACKED ACTOR-NETWORKS APPLYING DELAY DIFFERENTIAL EQUATIONS

10:30 - 11:00

BREAK

11:00 - 11:30

Plenary talk: Sava Grozdev, THE MOVING SOFA

11:30 - 11:45

Ivan Shotlekov, THE PITCH AS A REALITY CHECK: AI-RESILIENT ASSESSMENT OF WEF 2025 CORE SKILLS IN IT STUDENTS' CHALLENGE-BASED PROJECTS IN AN EAP COURSE

11:45 - 12:00

Ivaylo Staribratov, INTERGENERATIONAL DIFFERENCES IN EDUCATION: ATTITUDES OF GENERATION ALPHA STUDENTS AND METHODOLOGICAL APPROACHES IN SCHOOL

12:00 - 14:00

BREAK

14:00 - 14:15

Todor Atanasov, Todorka Terzieva, COMPASS: A MICROLEARNING APPLICATION FOR RECOGNIZING ESCALATION AND SUPPORTING STUDENT LEADERSHIP IN SECONDARY EDUCATION

14:15 - 14:30

(online) Konstantinos Koroxenos, CALCULATING PHYSICS CONCEPTS THROUGH EDUCATIONAL ROBOTICS: AN INTERDISCIPLINARY STEM SCENARIO FOR MIDDLE SCHOOL

14:30 - 14:45

Mariya Totinova, Kosta Garov, Stefka Aneva, DEVELOPMENT OF VISUAL-ACTIVE THINKING THROUGH SEYMOUR PAPERT'S CONSTRUCTIONISM AS A MEANS FOR EDUCATIONAL ROBOTICS

14:45 - 15:00

Maria Kirilova, Todorka Glushkova, A GAME-BASED MODEL FOR TRANSITIONING FROM BLOCK-BASED TO TEXT-BASED PROGRAMMING THROUGH THE ALICE ENVIRONMENT

15:00 - 15:30

BREAK

15:30 - 15:45

Sofia Vasileva, CONCEPT AND STRUCTURE OF A METHODOLOGICAL MODEL FOR PROJECT-BASED LEARNING IN INFORMATION TECHNOLOGY AT THE FIRST STAGE OF UPPER SECONDARY EDUCATION

15:45 - 16:00

Denislav Marinov, CONCEPT AND STRUCTURE OF AN INTERACTIVE MODEL FOR TEACHING ELEMENTS OF CALCULUS IN SPECIALISED UPPER-SECONDARY MATHEMATICS EDUCATION

16:00 - 16:15

Maria Karabalieva, Stefka Aneva, METHODOLOGICAL ASPECTS OF INTEGRATING MICRO:BIT, EDUCATIONAL ROBOTICS AND ARTIFICIAL INTELLIGENCE THROUGH THE STEM PROJECT "BITBUS"

16:15 - 16:30

Denitsa Mineva, Kosta Garov, Stefka Aneva, STEMY: AN EDUCATIONAL AI AGENT AND RESEARCH PORTAL FOR INTEGRATED STEM EDUCATION THROUGH 3D TECHNOLOGIES

16:30 - 16:45

Aleksandar Ivanov, ETHICAL ASPECTS OF SOFTWARE DEVELOPMENT IN PROGRAMMING EDUCATION: FOSTERING RESPONSIBLE BEHAVIOR IN MOBILE APPLICATION DEVELOPMENT

16:45 - 17:00

(online) Sava Grozdev, Veselin Nenkov, Tatyana Madjarova, HYPERBOLA GENERATED BY THE MOTION OF EQUILATERAL TRIANGLES

29.10.2026 • HALL C

09:30 - 10:00

Plenary talk: Avram Eskenazi, SOFTWARE TECHNOLOGIES VS. ARTIFICIAL INTELLIGENCE – HOW DO THEY INTERACT?

10:00 - 10:30

Plenary talk (online): Preslav Nakov

10:30 - 11:00

BREAK

11:00 - 11:15

Anita Stoyanova, FROM PROCESS ANALYSIS TO PROCESS TRANSFORMATION: A METHODOLOGY FOR IDENTIFYING THE APPROPRIATE TRANSFORMATION TARGET USING GENERATIVE ARTIFICIAL INTELLIGENCE

11:15 - 11:30

Konstantin Rusev, Todorka Glushkova, CONTEXT-AWARE MODELING IN MULTI-CONTEXT ENVIRONMENTS: FROM CONSISTENT SCENARIOS TO CONFLICT RESOLUTION

11:30 - 11:45

Maya Stoeva, Todorka Glushkova, EVOLUTION OF PRACTICAL COMPUTER SCIENCE EDUCATION: A PROPOSED AI-ASSISTED FRAMEWORK FOR WEB/UI/UX DESIGN ENGINEERING AND BEYOND

11:45 - 12:00

Konstantin Rusev, Todorka Glushkova, Angel Georgiev, CONTEXT-AWARE MODELING OF A DATA LAKEHOUSE MIGRATION PLATFORM USING THE CALCULUS OF CONTEXT-AWARE AMBIENTS

12:00 - 14:00

BREAK

14:00 - 14:15

Kristiyan Kolev, Veselin Kyurkchiev, TOWARD A RESPONSIBILITY-CENTRED REFERENCE ARCHITECTURE FOR AUTOMATED CLOUD-SERVICE LIFECYCLE MANAGEMENT

14:15 - 14:30

Simeon Monov, Zlatomila Mincheva, Nikolay Pavlov, Maria Dobreva, DATA REPRESENTATION AND EVALUATION DESIGN IN NEURAL FORECASTING OF INSURANCE PREMIUM DEVELOPMENT

14:30 - 14:45

Simeon Monov, Tatiana Dragu, BULGARIAN SIGN LANGUAGE ALPHABET: A PILOT STUDY ON DATASET DESIGN AND CLASSIFICATION

14:45 - 15:00

Simeon Monov, Denis Bechiragich, Emre Myumyun, A COMPARATIVE ANALYSIS OF JEV AND OPEN-SOURCE MODELS IN MULTILINGUAL ZERO-SHOT CLASSIFICATION

15:00 - 15:30

BREAK

15:30 - 15:45

Simeon Monov, Miglena Dodleva, BENCHMARKING TABLE DETECTION MODELS AS A COST-CONTROL GATE FOR HETEROGENEOUS PDF DOCUMENTS

15:45 - 16:00

Sebiha Madanska, Zornica Radeva, Stanimir Stoyanov, Asya Stoyanova-Doycheva, Veneta Tabakova-Komsalova, ONTOLOGY OF RARE PLANT SPECIES IN BULGARIA

16:00 - 16:15

(online) Emil Doychev, Asya Stoyanova-Doycheva, Daniel Totev, MODELLING DISTRIBUTED EVENTS IN EVENTOR

16:15 - 16:30

Veneta Tabakova-Komsalova, Asya Stoyanova-Doycheva, Boyan Belichev, Ivan Stoyanov, Pencho Malinov, Sebiha Madanska, Stanimir Stoyanov, MULTI-AGENT SYSTEM FOR OPERATIONAL MANAGEMENT OF THE NATIONAL GENE BANK

16:30 - 16:45

Srebrin Srebrev, Stanimir Stoyanov, Veneta Tabakova-Komsalova, FROM FACTS TO EXPLAINABLE MACHINE LEARNING: A MULTI-LEVEL PROLOG MODEL FOR BULGARIAN ROCK SANCTUARIES

30.10.2026 • HALL B

09:30 - 09:45

Ventsislav Dilyanov, Todorka Terzieva, TRANSFORMATION OF EXAMINATION STRATEGIES AND APPLICATION OF BLOOM'S DIGITAL TAXONOMY FOR SUSTAINABLE ASSESSMENT

09:45 - 10:00

Viktor Matanski, REVISITING CHLADNI PATTERNS IN A VIRTUAL ENVIRONMENT: THE PLATE, THE PARTICLE AND THE OBSERVER

10:00 - 10:15

Kremena Stefanova, Veselina Naneva, AN APPROACH FOR DEFINING A ETLVV PROCESS FOR BIG DATA ANALYTICS

10:15 - 10:30

Kremena Stefanova, Veselina Naneva, THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN GRAPHIC DESIGN FOR SKILLS IMPROVEMENT AND VALIDATION

10:30 - 10:45

Angel Urilski, Rosen Hristev, THE ROLE OF ARTIFICIAL INTELLIGENCE IN THE SECURITY OF E-LEARNING SYSTEMS

10:45 - 11:00

Rosen Hristev, OPPORTUNITIES FOR AUTOMATED DATA RECOVERY IN PRIVATE CLOUD INFRASTRUCTURE

Sponsored by:

„ОК – Марков“ ЕООД София

Clarification

HALL A is Aula 2 • **HALL B** is Auditorium 422 • **HALL C** is Auditorium 423