MOLDOVA STATE UNIVERSITY
INSTITUTE OF APPLIED PHYSICS
Scientific Research Laboratory
"Environmental Physics and Complex Systems Modeling"



CONFERENCE PROGRAMME
NOVEMBER 13, 2026

MOLDOVA STATE UNIVERSITY
ALEXEI MATEEVICI STREET,60,
CHISINAU MD-2009
The session will be held in room 425, Building IV

The 7th edition of the conference is dedicated to World Science Day for Peace and Development, celebrated annually on November 10 under the auspices of UNESCO, and marks the 80th anniversary of the founding of Moldova State University, the country's first university.

World Science Day highlights the role of science in building peaceful and sustainable societies, while the anniversary celebrates eight decades in which the university has trained generations of specialists and researchers and has become a leading scientific and educational centre of the Republic of Moldova.

The event is organized within the project no. 25.80012.0807.25TC and the research subprogram code 011210.

Scientific Committee of the Conference:

Veaceslav SPRINCEAN	Moldova State University, PhD, Associate Professor, Coordinating Researcher, Subprogram Director
Florentin PALADI	Moldova State University, Habilitated Doctor, Professor, Principal Researcher
Ion TIGHINEANU	Academy of Sciences of Moldova, President, Academician, Habilitated Doctor, Professor
Pasquale DAPONTE	Università degli Studi del Sannio, UNISANNIO, Benevento, Italy, Doctor Honoris Causa, Professor
Luca DE VITO	Università degli Studi del Sannio, UNISANNIO, Benevento, Italy, PhD, Associate Professor
Vladimir FOMIN	University of Dresden, Leibniz Institute, Germany, Honorary Member of the Academy of Sciences of Moldova, Habilitated Doctor, Professor
Tudor SPĂTARU	Columbia University, New York, United States of America, PhD, Professor
Ala COJOCARU	Kiel University, Phi-Stone AG, Germany, PhD
Tudor BRANIȘTE	Technical University of Moldova, PhD, Senior Researcher
Sergiu MATVEEV	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Marianna SAVVA	Moldova State University, PhD, Senior Researcher
Ana BÎRSAN	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Ilie SANDU	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Alisa MOȘNEAGA	Moldova State University, PhD, Senior Lecturer
Maria BELDIGA	Moldova State University, Faculty of Physics and Engineering, Dean, PhD, Associate Professor

George CULEA	"Vasile Alecsandri" University of Bacău, Romania, PhD, Professor
Gabriel PUIU	"Vasile Alecsandri" University of Bacău, Romania, PhD, Associate Professor
Dorin AFANAS	"Alexandru cel Bun" Military Academy of the Armed Forces, PhD, Associate Professor
Vasile IARMULSCHI	Institute of Prehistoric Archaeology, Free University of Berlin, Germany, PhD, Researcher
Andrei ASĂNDULESEI	ARHEOINVEST Centre, "Alexandru Ioan Cuza" University of Iași, Romania, PhD, Researcher
Adriana ȘTEFAN	INCAS – "Elie Carafoli" National Institute for Aerospace Research and Development, Bucharest, PhD Eng., Grade I Scientific Researcher, Director
Dragoș TĂTARU	National Institute for Earth Physics (INFP), Romania, Head of the Laboratory of Applied Geophysics, Prevention and Education – GeoEduLab, PhD Eng., Senior Researcher
Sebastiano D'AMICO	University of Malta, Head of the Department of Geosciences, PhD, Associate Professor

Organizing Committee of the Conference:

Veaceslav SPRINCEAN	Moldova State University, PhD, Associate Professor, Coordinating Researcher, Subprogram Director
Florentin PALADI	Moldova State University, Habilitated Doctor, Professor, Principal Researcher
Marianna SAVVA	Moldova State University, PhD, Senior Researcher
Sergiu MATVEEV	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Ana BÎRSAN	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Ilie SANDU	Moldova State University, PhD, Associate Professor, Coordinating Researcher
Alisa MOȘNEAGA	Moldova State University, PhD, Senior Lecturer



CONFERENCE PROGRAMME

Welcome&Registration	**9:00**
Exhibition	**9:00**
Conferences official opening **Welcome messages of the organizing committee**	**10:00**
Presentation of communications **Panel I:** **"Advanced UAV Technologies for Environmental Monitoring, Assessment and Modelling"**	**10:00**
Coffee break	**13:00-14:00**
Presentation of communications **Panel II:** **"Environmental and Climate Change Education"**	**14:00**

WELCOME SPEECH

Friday, November 13, 2026,
Join link: https://teams.live.com/meet/9374446258066?p=OHTuvbdY5blZFO4jdm

- **Otilia DANDARA, Moldova State University, Rector, Habilitated Doctor, Professor**
- **Laurenția UNGUREANU, Moldova State University, Vice-Rector for Research, Corresponding Member of the Academy of Sciences of Moldova, Habilitated Doctor, Professor**
- **Ion TIGHINEANU, President of the Academy of Sciences of Moldova, Academician, DSc, professor**
- **Alexei MESALKIN, Moldova State University, Ph.D, Scientific Secretary of the Institute of Applied Physics.**
- **Maria BELDIGA, Moldova State University, Dean, Faculty of Physics and Engineering, Ph.D, associate professor**

MODERATORS –

Marianna SAVVA, PhD,
Senior Researcher, Moldova State University

Veaceslav SPRINCEAN, PhD,
Associate Professor, Moldova State University

KEYNOTE SPEECH



EYES IN THE SKY: DRONES FOR ENVIRONMENTAL RESEARCH AND CULTURAL HERITAGE CONSERVATION

Sebastiano D'AMICO
Head, Department of Geosciences,
University of Malta

Prof Sebastiano D'Amico is an Associate Professor and Head of the Department of Geosciences at the University of Malta. A physicist by training, he holds a PhD in Geophysics and has worked in Italy, the United States, and Malta. His research focuses on applied geophysics, engineering geology, coastal hazards, cultural heritage science as well as earthquake and environmental seismology. He leads the Malta Seismic Network and coordinates national and European research projects. With more than 120 peer-reviewed publications, he combines field observations, advanced monitoring, geomatics, and artificial intelligence to improve hazard assessment, resilience, and environmental protection across the Mediterranean region and beyond.



ADVANCED PHYSICAL TECHNOLOGIES AND UNCREWED AERIAL SYSTEMS (UVS/UAV) IN ENVIRONMENTAL FACTOR MONITORING AND MODELLING: FROM HIGH-PRECISION MULTISENSOR DATA ACQUISITION TO ATMOSPHERIC SIMULATIONS AND 3D LiDAR MAPPING.

Adriana STEFAN, Dr., Director, INCAS – "Elie Carafoli" National Institute for Aerospace Research and Development, Bucharest, Romania; President of the INCAS Scientific Council; Senior Research Scientist (Grade I)

Senior research scientist at INCAS with over 25 years of experience in development of methodologies for the analysis and morphostructural characterisation of polymer composite and metal alloys for aviation, she has experience in testing and validating experimental results for materials used in aviation, developing process

methodologies and experimental testing as well as developing methodologies for validating the technology of making composite materials. Professional experience combines a solid technical background, validated by remarkable scientific results, with advanced administrative expertise gained through top-management leadership. She has a PhD in materials science and engineering. She has worked in and managed more than 30 research projects at national and international levels and the results of her research are published in up to 100 WoS and BDI journals. She is co-author of 3 patents and 1 patent application and were presented at various national and international conferences. She is a member of the AIAA, ICAS, World Academy of Science, Engineering and Technology organization, a member of the AHS International organization - The vertical Flight Technical Society and a member of the Romanian Electronic Microscopy Society, member of European Electronic Microscopy Society, a member of the European Defense Agencies (EDA) CapTech Materials and ASD – MADIG and ASD REACH&CHEM, EREA, IFAR.



FROM GEOPHYSICS TO INTEGRATED EARTH MONITORING WITH UAV, LIDAR AND SENSOR TECHNOLOGIES

Dragoș TĂTARU, Dr. eng., senior researcher,
National Institute for Earth Physics (INFP/NIEP),
Romania, and Head of the Applied Geophysics,
Prevention and Education Laboratory – GeoEduLab

With more than 20 years of experience in seismology and geophysics, his current research focuses on integrated Earth monitoring, combining near-surface geophysical methods with UAV-based remote sensing, LiDAR, photogrammetry and multi-sensor observations. His work addresses the monitoring and characterization of geohazards and environmentally sensitive areas, with particular interest in developing integrated and repeatable observation strategies that connect ground-based geophysics, airborne measurements and geospatial data. He coordinates and contributes to multidisciplinary research projects involving urban and natural ground instability, salt-karst environments, seismic and geophysical monitoring, and the development of UAV-based Earth observation capabilities. An important component of his activity is the transfer of research results into operational services, monitoring methodologies and know-how that can be used by public authorities,

stakeholders and other end users. Dr. Tătaru is actively involved in European research infrastructures and international scientific collaborations and also coordinates GeoEduLab initiatives linking research, technological development and geoscience education. He serves also as the European Geoscience Union (EGU) Geoscience Education Field Officer for Romania.



HOW CULTURE SHAPES ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORTING

Theodora Mihaela DOLTU, Lecturer, Ph.D
Head of Department of Economics,
Faculty of Entrepreneurship,
Business Engineering and Management
National University of Science and Technology
POLITEHNICA Bucharest, Romania

Theodora Mihaela Doltu is Lecturer and Head of Department of Economics, Faculty of Entrepreneurship, Business Engineering and Management, National University of Science and Technology POLITEHNICA Bucharest, Romania. She holds a BSc in Economics (1997) and a Ph.D. in Economics (2004) from the Bucharest University of Economic Studies, with doctoral research on risk and uncertainty in economics. She began her academic career as a teaching assistant in 1998, became a lecturer in 2004 and is the Head of Department of Economics since March 2024. Her professional experience includes work at the Romanian Government's Competition Office and financial consultancy with Ernst & Young and Romania's Ministry of Regional Development and Tourism, evaluating grant applications under the 2007–2013 Regional Operational Programme. Since 2019, she has also served as an implementation expert and trainer in Erasmus+ programmes focused on the Sustainable Development Goals, innovation, sustainable business development, sustainable business education and green skills. She teaches microeconomics, macroeconomics, managerial and business economics and financial management. Her research interests include risk and uncertainty, applied economics, business analysis, sustainability in higher education, sustainability standards and Industry 4.0.



THE ECONOMICS OF APPLIED PHYSICS: INTERNATIONAL THEORIES AND BEST PRACTICES FROM THE PERSPECTIVE OF CLIMATE CHANGE

Andrei MUNTEANU,
External lecturer at the Baden-Württemberg Cooperative State University (DHBW) Heidenheim, Germany

Most recently, he has served as a lecturer at the Pedagogical State University of Chișinău and as a lecturer in economic sciences at the School of Economics and Management of JiuJiang University, China. He holds a Master's degree in International Comparative Education, with a specialization in the Economics of Education, earned at Stockholm University on a merit scholarship. He previously worked as a Senior Lecturer in International Economic Relations at ULIM and at the Pedagogical State University of Chișinău. He is a graduate of Bălți State University (1990) and the Academy of Economic Studies of Moldova (1998). He has experience consulting on international development projects and, on merit scholarships, completed courses at Reuters Open University (Bucharest), in India (bank management), and in Tokyo at JICA (sustainable development, macroeconomic policy). He is a peer reviewer for „Electronic Commerce Research" (Scopus-indexed), ECIS, and the „European Educational Research Journal".



DESIGNING RISK-BASED DRONE APPLICATIONS FOR THE EARLY DETECTION OF FOREST FIRES

Emánuel ISTVÁN SCHOLTZ
PhD student, Doctoral School of Law Enforcement, Ludovika University of Public Service, Budapest, Hungary

Emánuel István Scholtz is a PhD student at the Doctoral School of Law Enforcement, Ludovika University of Public Service, Budapest, Hungary. A computer science engineer by training, he researches the use of artificial intelligence and large language models in disaster management. His current work examines the impact of climate change on forest fires in Hungary, focusing on drone-based technologies and risk analysis. He works primarily with Python and C#.

PRESENTATION OF COMMUNICATIONS

PANEL I: "ADVANCED UAV TECHNOLOGIES FOR ENVIRONMENTAL MONITORING, ASSESSMENT AND MODELLING"

This panel is organized within the framework of the PHYSTECH Research Subprogramme, entitled "Advanced Physical Methods and UAV-Based Technologies for Comprehensive Monitoring, Assessment and Modelling", Project Code: 011210

1. **CARACTERISTICILE BENZILOR INTERZISE DE FRECVENȚĂ ALE CABLURILOR UAV CU ATAȘAMENTE ELASTICE PERIODICE**
   Alexandr A. BARSUK[1], Adrian PALADI[1], Anton DANICI[2], Veaceslav SPRINCEAN[1], Florentin PALADI[1]
   [1]Laboratorul ,,Fizica Mediului și Modelarea Sistemelor Complexe'', Universitatea de Stat din Moldova
   [2]Qognifly Systems, Romania

2. **NOI REZULTATE ALE PROSPECȚIUNILOR LIDAR LA FORTIFICAȚIILE PREISTORICE DE PE TERITORIUL REPUBLICII MOLDOVA**
   Aurel ZANOCI[1], Serghei PASCARI[1], Veaceslav SPRINCEAN[2]
   [1]Centrul de Arheologie „Ion Niculiță",
   [2]Laboratorul ,,Fizica Mediului și Modelarea Sistemelor Complexe'', Universitatea de Stat din Moldova

3. **GLUCOSE AND KETONE SENSING: FROM BLOOD TO SWEAT CLINICAL STATUS, CHALLENGES AND TRANSLATION**
   Cornel COBIANU[1,2], Florina ILIESCU[1], Ciprian ILIESCU[1,2]
   [1]eBio-hub Center of Excellence in Bioengineering, National University for Science and Technology Politehnica Bucharest
   [2]Academy of Romanian Scientists

4. **COUPLING ZINC OXIDE WITH GOLD TO ENHANCE ANTIBACTERIAL ACTIVITY FROM AU-DECORATED ZNO NANOSTRUCTURES TO FUNCTIONAL COTTON WOUND DRESSINGS**
   Violeta DEDIU[1,2], Mariana BUSILA[3], Ciprian ILIESCU[1,2]
   [1]eBio-hub Center of Excellence in Bioengineering, National University for Science and Technology Politehnica, Bucharest
   [2]National Research and Development Institute in Microtechnologies – IMT Bucharest
   [3]Manufacturing Engineering Department, Faculty of Engineering, "Dunărea de Jos", University of Galați

5. **SAMPLE CONCENTRATION IN PAPER-BASED MICROFLUIDIC DEVICES**

Ciprian ILIESCU[1,2,3], Guillaume TRESSET[3,4]
[1] eBio-hub Center of Excellence in Bioengineering, National University for Science and Technology Politehnica Bucharest
[2] National Research and Development Institute in Microtechnologies – IMT Bucharest
[3] Academy of Romanian Scientists
[4] Université Paris-Saclay, CNRS, Laboratoire de Physique des Solides, Orsay, France

6. **EVOLUȚIA ȘI REALIZĂRILE ÎN AMELIORAREA FLORII-SOARELUI LA INSTITUTUL DE CERCETĂRI PENTRU CULTURILE DE CÂMP „SELECȚIA”**

Ion RUSU, IP Centrul Național de Cercetare și Producere a Semințelor, sectorul „Selecția”, Republica Moldova

7. **AGROBIOLOGICAL CHARACTERIZATION AND YIELD PERFORMANCE OF NEW COMMON BEAN CULTIVARS DEVELOPED AT THE NATIONAL CENTER FOR SEED RESEARCH AND PRODUCTION “SELECȚIA”**

Larisa AVĂDĂNII[1], Costel GUȚU[1], Marianna GUȚU[1]
[1]IP Centrul Național de Cercetare și Producere a Semințelor sectorul „Selecția”, Republica Moldova

8. **CERCETĂRI GEO-MAGNETICE ȘI SPAȚIALE ÎN MICROZONA ECATERINOVCA-IALPUGENI-VALEA JEPARULUI**

Serghei MATVEEV, Vlad VORNIC, Andrei ASĂNDULESEI
[1]Universitatea de Stat din Moldova,
[2]Universitatea ,,Alexandru Ioan Cuza’’, Iași, România

9. **ENHANCING THE EFFICIENCY OF CONTAMINATED FLUID DECONTAMINATION USING UV-C PENETRABLE METAMATERIALS**

Ion MUNTEANU[1,2]
[1]Quantum Optics and Kinetic Processes Lab, Institute of Applied Physics, Moldova State University
[2]Department of human physiology and biophysics, State University of Medicine and Pharmacy "Nicolae Testemițanu"

10. **UAV ȘI INTELIGENȚĂ ARTIFICIALĂ ÎN ANALIZA SIGURANȚEI RUTIERE ȘI EVALUAREA CANDIDAȚILOR LA PERMIS**

Veaceslav NICIC[1], Veaceslav SPRINCEAN[1], Florentin PALADI[1]
Laboratorul ,,Fizica Mediului și Modelarea Sistemelor Complexe’’, Universitatea de Stat din Moldova

11. **COMPARATIVE EVALUATION OF GRAIN YIELD AND QUALITY IN SOYBEAN CULTIVARS FROM DIFFERENT MATURITY GROUPS UNDER THE SOIL AND CLIMATIC CONDITIONS OF 2025**
Costel GUȚU, IP Centrul Național de Cercetare și Producere a Semințelor sectorul „Selecția”, mun. Bălți, Republica Moldova

12. **ANNEALING ATMOSPHERE EFFECTS ON PHOTOELECTRICAL PROPERTIES OF ZN_2SNO_4:TI FILMS FOR UV DETECTION**
Vadim MORARI[1*], Anghelina COSTIȘ[1], Dan BRAGARI[1], V. Emil RUSU[1]
[1]D. Ghitu Institute of Electronic Engineering and Nanotechnologies, Technical University of Moldova

13. **INFLUENȚA TRATĂRII TERMICE ASUPRA CARACTERISTICILOR FOTOELECTRICE ALE FILMELOR DE ZNO DOPATE CU PĂMÂNTURI RARE OBȚINUTE PRIN RF MAGNETRON**
Victor SUMAN[1*], Vadim MORARI[1], Darius ȚURCAN[1], Lidia GHIMPU[1], V. Emil RUSU[1]
[1]D. Ghitu Institute of Electronic Engineering and Nanotechnologies, Technical University of Moldova

14. **LAYERED METAMATERIALS FOR SPIN-VALVE NANOSTRUCTURES, AS A BASIS FOR ARTIFICIAL NEURAL NETWORKS**
Vladimir I. BOIAN[1*], Roman MORARI[1], Vladimir M. FOMIN[2,3], Nicolas R. PEREZ[2], Juliane SCHEITER[2], Anatolie SIDORENKO[1]
[1]Technical University of Moldova, Institute of Electronic Engineering and Nanotechnologies, Chisinau, Moldova
[2]IET, IFW Dresden, Germany
[3]Moldova State University, Chisinau, Republic of Moldova.

15. **BEYOND CONVENTIONAL ZnO: FOUR ARMS MAKE A DIFFERENCE**
Ala COJOCARU, Phi-Stone AG, Kiel, Germany

16. **SURFACE-POTENTIAL AND SURFACE-TENSION CONTROL OF ELECTROHYDRODYNAMIC TRANSIENT AND DISSIPATIVE STRUCTURES UNDER RADIATION PERTURBATIONS AND MICROGRAVITY**
Boris CONSTANTINOV, Moldova State University

17. **MONITORING THE INFLUENCE OF HIGH TEMPERATURES ON THE GEOMETRY OF HIGH-VOLTAGE OVERHEAD POWER LINES USING UAS TECHNOLOGIES (LIDAR, RGB, GNSS RTK)**
Serghei PASCARI[1], Florentin PALADI[2], Marianna SAVVA[2], Veaceslav SPRINCEAN[2]
[1]Centrul de Arheologie „Ion Niculiță”, Universitatea de Stat din Moldova,

[2]Laboratorul ,,Fizica Mediului și Modelarea Sistemelor Complexe'',
Universitatea de Stat din Moldova

18. **THE POTENTIAL OF UAS-LIDAR TECHNOLOGY FOR A COMPARATIVE ANALYSIS OF INDIVIDUAL TREE SEGMENTATION ALGORITHMS**

Liviu DONTU[1], Serghei PASCARI[2], Marianna SAVVA[1], Veaceslav SPRINCEAN[1]
[1]Laboratorul ,,Fizica Mediului și Modelarea Sistemelor Complexe'',
Universitatea de Stat din Moldova

PANEL II: "ENVIRONMENTAL AND CLIMATE CHANGE EDUCATION"

This panel is organized within the framework of the research project "Sustainable Environment through Drone Education", Project Code: 25.80012.0807.25TC, funded by NARD

1. **UNCERTAINTY AVOIDANCE AND THE STANDARDIZATION OF ESG REPORTING: COMPARATIVE EVIDENCE FROM THE ENERGY SERVICES SECTOR IN ITALY, ROMANIA, AND THE REPUBLIC OF MOLDOVA**
   Veronica PRISĂCARU, Galina LISA
   Moldova State University

2. **PRESENTATION OF THE NATURA 2000 MOLDOVA PROJECT: PROMOTING THE EUROPEAN APPROACH TO NATURE CONSERVATION**
   Natalia GURANDA, EcoContact Association, Project Manager, Environmental Expert

3. **ANALYSIS OF SUSTAINABILITY REPORTING PRACTICES IN COMPANIES FROM THE REPUBLIC OF MOLDOVA: INSTITUTIONAL CONTEXT, CULTURAL DIMENSIONS, AND CONVERGENCE PATHWAYS**
   Marian JALENCU, Moldova State University

4. **INDULGENCE–RESTRAINT AND ESG COMMUNICATION STYLES: NARRATIVES, METRICS AND TRANSPARENCY IN ENERGY SUSTAINABILITY REPORTING**
   Galina LISA, Iuliana DRĂGĂLIN, Moldova State University

5. **ESG REPORTING IN THE WINE INDUSTRY: A COMPARATIVE ANALYSIS OF ITALY AND THE REPUBLIC OF MOLDOVA**
   Marian JALENCU, Irina COSNICEAN
   Moldova State University

6. **ASSESSMENT OF SEEDLING VIGOR AND WATER DEFICIT TOLERANCE IN COMMON WHEAT (Triticum aestivum L.) GENOTYPES**
   Natalia JELEV, Tatiana DELEAN,
   Institute of Genetics, Physiology and Plant Protection,
   Moldova State University, Chișinău, Republic of Moldova

7. **UTILIZAREA ENERGIEI SOLARE PE VEHICULE FEROVIARE**
   Daniel APOSTOL, Universitatea Tehnică „Gheorghe Asachi" din Iași, România

8. **ESTIMAREA CONȚINUTULUI DE PROTEINE ȘI LIPIDE ÎN BOABELE DIFERITOR SOIURI DE *GLYCINE MAX* (L.) MERR. PRIN UTILIZAREA TEHNOLOGIEI NIRS**
   Ana BÎRSAN, Moldova State University

9. **AI ASSISTANTS IN ENVIRONMENTAL AND CLIMATE CHANGE EDUCATION: OPPORTUNITIES, RISKS AND A FRAMEWORK FOR RESPONSIBLE USE**
   Olga DARII, Moldova State University

10. **APLICAȚIILE UAV ÎN MONITORIZAREA MEDIULUI ȘI VALORIFICAREA LOR ÎN DEZVOLTAREA COMPETENȚELOR ECOLOGICE**
    Alisa MOȘNEAGA, Moldova State University

11. **DRONES IN ENVIRONMENTAL AND CLIMATE CHANGE EDUCATION: PERCEPTIONS AND PERSPECTIVES**
    Marianna SAVVA, Moldova State University

12. **INFLUENȚA TRATAMENTULUI BIOSTIMULATOR AL SEMINȚELOR DE PORUMB (ZEA MAYS L.) CU MATERIALE COMPOZITE PE BAZĂ DE ARGILĂ ȘI NANOCLUSTERI DE CARBON ASUPRA CREȘTERII VEGETATIVE**
    Alisa MOȘNEAGA, Petru LOZOVANU, Moldova State University

13. **THE IMPORTANCE OF MODERN DRONE SCANNING TECHNOLOGIES FOR THE CONSERVATION OF PLANT BIODIVERSITY**
    Ion ROȘCA, Moldova State University

14. **A MODEL FOR ASSESSING THE READINESS OF NATIONAL HEALTH DATA ECOSYSTEMS FOR ARTIFICIAL INTELLIGENCE**
    Cornel CIORICI, Moldova State University

15. **eALERT: TEMPORAL MODELING OF PARTICLE CONCENTRATIONS USING 4DenVar AND PERSPECTIVES ON INTEGRATING ARTIFICIAL INTELLIGENCE**
    Alexei LEU[1], Adrian PALADI[1], Veaceslav SPRINCEAN[1],
    [1]Moldova State University

15. **REVISITING PREVIOUS STUDIES ON LOCAL AND GLOBAL SEISMICITY: SEISMIC MONITORING AND PREDICTION**
    Ilie SANDU, Moldova State University

17. **INVESTIGATION OF Sb 2 (S,Se) 3 THIN FILM FORMATION BY CLOSE-SPACED SUBLIMATION-ASSISTED SELENIZATION OF Sb 2 S 3**

Dumitru Untila [1,2]* , Dumitru Rusnac[1], Gleb Colibaba[1,] C. Radu[3] , A. E. Bocirnea[3] , C. Besleaga[3], A. C. Galca[3] , N. Spalatu[1,4]
[1]Moldova State University
[2]"Nicolae Testemitanu" State University of Medicine and Pharmacy,
[4]National Institute of Materials Physics, Magurele, Romania;
[3]Tallinn University of Technology, Tallinn, Estonia

18. **MICII CERCETĂTORI ÎN ACȚIUNE: CARTOGRAFIEREA DIGITALĂ A DEȘEURILOR ȘI EVALUAREA RISCURILOR ECOLOGICE PRIN ACTIVITĂȚI STEAM**
Silvia BUIMESTRU, Moldova State University

19. **GREEN AI IN EDUCATION: ENERGY-EFFICIENT DETECTION OF AI-GENERATED CODE IN PROGRAMMING OLYMPIADS**
Nichita NARTEA, Moldova State University

20. **UAV COMMUNICATION CHANNELS AND SPECIFIC FEATURES OF UAV-GENERATED AND UAV-COLLECTED DATA**
Dorin AFANAS, "Alexandru cel Bun" Military Academy of the Armed Forces

21. **CLEAN SPORT, CLEAN ENVIRONMENT: AN EDUCATIONAL APPROACH TO NUTRITION AND DIETARY SUPPLEMENTS**
Artiom JUCOV[1], Director, Project Manager CLEAN Nutrition,
Lilia TALMATCHI[1], Head of AD programs
[1]National Anti-Doping Agency of the Republic of Moldova

22. **PARTICULARITIES OF DATA GENERATED AND COLLECTED BY UAVs**
Arina BRIGALDA,"Alexandru cel Bun" Military College of the Armed Forces, Republic of Moldova

23. **VALORIFICAREA EXPERIENȚELOR PLURILINGVE ÎN DEZVOLTAREA COMPETENȚEI INTERCULTURALE ȘI A RESPONSABILITĂȚII ECOLOGICE LA ELEVII DIN ÎNVĂȚĂMÂNTUL PRIMAR**
Raluca Daniela DIACONU, Universitatea Pedagogică de Stat „Ion Creangă"

24. **USING DRONE IMAGERY AND GEOSPATIAL APPLICATIONS TO STUDY SETTLEMENTS AND HUMAN ACTIVITIES IN GRADE 9 GEOGRAPHY: AN INTERDISCIPLINARY LEARNING FRAMEWORK**
Vitalie Mamot, "Ion Creangă" State Pedagogical University of Chișinău

25. **INTEGRAREA TEHNOLOGIILOR UAV ÎN PRACTICILE REDACȚIONALE: FACTORI DETERMINANȚI ȘI PROVOCĂRI INSTITUȚIONALE**
Vitalie GUȚU, Universitatea de Stat din Moldova