	PROGRAMME		
THURSDAY, JUNE 26, CHIȘINĂU TIME, GMT/UTC+3			
10.00 - 12.55	REGISTRATION	Small Senate Hall	
13.00 - 13.30	Opening ceremony	The Senate Hall	
13.30 - 14.30	Ca	offee break - hall, 2 <sup>nd</sup> floor, central building	
	Plenary session, The Senate Hall		
	Chairperson:	Valeriu UNGUREANU	
14.30 - 15.10	Andrei ALEXANDRU	Atomic cardinalities	
15.15 – 15.55	Mircea SOFONEA	A convergence criterion for history-dependent variational inequalities	
16.00 - 16.30	Coffee break – room 222, Building 4		
	Section 1. Alg	Section 1. Algebra, Geometry and Topology, Room 213a, Building 4	
	Chairperson:	Valeriu POPA	
16.30 - 16.55	Vladimir ARNAUTOV <sup>*</sup> ,	Completeness of the factor group of a complete topological abelian group by	
	Galina ERMAKOVA	a compact subgroup	
17.00 – 17.25	Ivan GUTSUL	On the number of hyperbolic orientable and non-orientable manifolds sharing a fundamental polytope with finite volume	
17.30 - 17.55	Ivan GUTSUL	On compact orientable and non-orientable hyperbolic manifolds with the same fundamental polytopes	
18.00 - 18.25	Florin DAMIAN	On hyperbolic manifolds with fundamental groups generated by translations	
18.30 - 19.00	Vladimir BALCAN	The behavior of geodesic orbits in hyperbolic surfaces	
	Section 2. Analysis, Differential Ec	quations and Dynamical Systems, Room 405, Building 4	
	Chairperson:	David CHEBAN, Vasile GLAVAN	
16.30 - 16.55	Vasile GLAVAN*, Valeriu GUȚU	Shadowing in linear skew-product flows	

17.00 - 17.25	Yaroslav BIHUN <sup>*</sup> Andrii DROBOT	Multifrequency systems with an asymptotic hierarchy of amplitude and phase variable	
17.30 - 17.55	David CHEBAN	On the algebraic closeness of the space of remotely almost periodic functions	
18.00 - 18.25	Andrei PERJAN	The hyperbolic relaxation of the non viscous Cahn-Hilliard equation	
	Section 3. Applie	d Mathematics, Room 423, Building 4	
	Chairperson:	Dmitrii LOZOVANU, Boris HÎNCU	
16.30 - 16.55	Dmitrii LOZOVANU	Stationary equilibria for dynamic positional games on graphs	
17.00 - 17.25	Grigore SECRIERU	Modeling the formation of one-dimensional flows of a real gas at large Strouhal numbers.	
17.30 - 17.55	Alexandru LAZARI	Hidden Markov models with final sequences of observable states.	
	Section 4. Computer Science and IT, Room 145, Building 4		
	Chairperson:	Ludmila NOVAC	
16.30 - 16.55	Ion Alexandru MARINESCU <sup>*</sup> , Ciprian DOBRE, Ionuț PETRE, Florin POP	Public awareness and perceptions of smart mobility: a survey-based analysis	
17.00 - 17.25	Tudor BUMBU <sup>*</sup> , Liudmila BURTSEVA, Marius CERESCU,	Handwritten texts processing: challenges and solutions	
	Svetlana COJOCARU, Alexandru COLESNICOV, Ludmila MALAHOV		

18.00 - 18.25	Adela GOREA <sup>*</sup> , Mircea PETIC	Aspects of AI modeling the perception of credibility of information on the Web	
18.30 – 18.55	Olesea CAFTANATOV <sup>*</sup> , Alexandr PARAHONCO	Personalized learning through cognitive user modeling	
	Section 5. Didactics of Mathematics and Informatics, Room 404, Building 4		
	Chairperson:	Maria CRISTEI, Lilia SOLOVEI	
16.30 - 16.55	Natalia GAȘIȚOI	Fostering critical and creative thinking in an undergraduate mathematical analysis course through reflective practice and complex tasks	
17.00 - 17.25	Olga CERBU*, Tatiana ŞESTACOVA	Despre caracteristicile curbelor plane	
17.30 – 17.55	Nicoleta GORDILĂ	Problematizarea – cheie pentru o lecție altfel	
18.00 - 18.25	Cristina Vasilica TUDOSE*, Raluca Mihaela GEORGESCU	Some applications with points and lines in three-dimensional Euclidean space solved in Maple	
18.30 - 18.55	Maria Crina DIACONU	About a statistical problem	
19.00 - 19.25	Ioana ILEANA*, Maria Crina DIACONU	Benefits of using digital applications in the study of mathematics	

FRIDAY, JUNE 27, CHIȘINĂU TIME, GMT/UTC+3			
	Plenary session, Room 405, Building 4		
	Chairperson:	Andrei PERJAN	
09.00 - 09.40	Dan TIBA	Penalization approaches in shape and topology optimization	
09.45 - 10.25	Petru JEBELEAN	Potential systems with relativistic type operator	
10.30 - 11.00		Coffee break – room 222, Building 4	
	Section 1	. Algebra, Geometry and Topology, Room 213a, Building 4	
	Chairperson:	Florin DAMIAN	
11.00 - 11.25	Elena CUZNETOV *, Parascovia SYRBU	On a new quasigroup prolongation and its recursive differentiability	
11.30 - 11.55	Halyna KRAINICHUK, Liudmyla IVANOVA	Logical schemes of some asymmetric quasigroups for lw-cryptography	
12.00 - 12.25	Tatiana ROTARI *, Parascovia SYRBU	On 4-quasigroups with exactly ten distinct parastrophes	
12.30 - 12.55	Bohdan BUNIAK, Fedir SOKHATSKY	About SA loops of order 10	
13.00 - 15.00		Lunch break	
Se	ction 2. Analysis, Differentia	l Equations and Dynamical Systems, Room 405 Building 4	
	Chairperson:	Vasile GLAVAN	
11.00 - 11.25	Cătălin-George LEFTER	Quantization and Liouville type properties for the system $-\Delta u = uJ' (1 -  u ^2)$ with a potential convex near zero	
11.30 - 11.55	Teodora BACIU	Predicting predator extinction in space and time	
12.00 - 12.25	Vasile NEAGU	Solution of some singular integrale quations with unbounded coefficients	

12.30 - 12.55	Valerii DRIUMA	Multidimension Riemann metrics to integrating of the Navier-Stokes equations
13.00 - 15.00	Lunch break	
	Chairperson:	Nicolae VULPE
15.00 - 15.25	Andrei SULTAN* David CHEBAN	Almost periodic solutions of lattice dynamical systems with monotone nonlinearity ( <b>online</b> )
15.30 – 15.55	Alex C. REZENDE* Regilene D.S.OLIVEIRA Dana SCHLOMIUK Nicolae VULPE	Invariant parabolas and lines configurations in planar quadratic systems (online)
16.00 - 16.25	Joan Carles ARTES* Jaume LLIBRE Dana SCHLOMIUK Nicolae VULPE	Codimension in planar polynomial differential systems (online)
16.30 - 17.00		Coffee break – room 222, Building 4
	Chairperson:	Dumitru COZMA
17.00 - 17.25	Nicolae VULPE * Joan Carles Artes	The codimension of the phase portraits for the family of degenerate quadratic differential system
17.30 – 17.55	Natalia NEAGU* Mihail POPA	Functional bases of center-affine invariant polynomials for the differential system $s^3$ (1, 2)
	Section 3. Ap	plied Mathematics, Room 423 Building 4
	Chairperson:	Boris HÎNCU
11.00 - 11.25	Mihaela DUMITRACHE <sup>*</sup> Camelia GHELDIU	Non-stationary diffusion problem with non-zero robin conditions in the doubly perforated domain
11.30 - 11.55	Alexandra TKACENKO	Efficient methods for solving the linear mult-icriteria optimization model in

		integers.
12.00 - 12.25	Stefan NICOV	Analytical lower bounds for conditional label probability confidence intervals
12.30 - 12.55	Mircea T. SOFONEA * , Bastien REYNÉ, Alexander MASSEY, Corentin BOENNEC, Claudia RESTREPO- ORTIZ, Baptiste ÉLIE, Ramsès DJIDJOU- DEMASSE, Quentin RICHARD, Christian SELINGER, Yannis MICHALAKIS, Samuel ALIZON	Non-Markovian real-time modeling of an emerging infectious disease: a French retrospective on COVID-19 mathematical projections.
13.00 - 15.00		Lunch break
	Chairperson:	Alexandra TKACENKO
15.00 - 15.25	Mario LEFEBRE	First-passage problems for a diffusion process used in population genetics.
15.30 - 15.55	Vladislav SEICIUC *, Eleonora SEICIUC	Weak singular integral operators and their estimations in holder spaces
16.00 - 16.25	Omar PURTUKHIA	Constructive integral representations of Brownian functionals.
16.30 - 17.00	Coffee break – room 222, Building 4	
	Chairperson:	Alexandra TKACENKO
17.00 - 17.25	Alexander D. KOLESNIK	A stochastic model of surface soil pollution from a stationary source
17.30 - 17.55	Titu CAPCELEA <sup>*</sup> ,	B-spline collocation method for solving singular integral equations with piecewise continuous coefficients

	Maria CAPCELEA	
18.00 - 18.30	Dan STRATILA	A computational comparison of mixed-integer formulations for concave piecewise-linear functions
	Section 4. Com	puter Science and IT, Room 145, Building 4
	Chairperson:	Mihail CROITOR
11.00 - 11.25	Mihail CROITOR	Test generation for contest programming tasks
11.30 – 11.55	Nichita NARTEA <sup>*,</sup> Mihail CROITOR	Secure execution of participants' code in automated evaluation systems
12.00 - 12.25	Gheorghe LATUL	Model-driven engineering in computer based instruction courses development
12.30 - 12.55	Natalia PLEȘCA	Bringing web content to life - a comparative study of TTS technologies
13.00 - 15.00		Lunch break
	Chairperson:	Valeriu UNGUREANU
15.00 - 15.25	Valeriu UNGUREANU	Generative AI and Workforce: a synergistic future with LLMs
15.30 - 15.55	Vsevolod ARNAUT	Mathematical models and aggregation functions
16.00 - 16.25	Constantin CIUBOTARU	Some modifications of the DMP algorithm for testing undirected graphs planarity
16.30 - 17.00		Coffee break – room 222, Building 4
	Chairperson:	Olga CERBU
17.00 - 17.25	Olga CERBU <sup>*</sup> , Valentina TÎRȘU	Methodological approaches in encryption based on the Laplace transform
15.20 15.55	Matei-Octavian ŢURCAN*	Managing PDF text layers for visualising and comparing transliterated text
17.30 - 17.55	Tudor BUMBU	

	Tudor BRAGARU,	
	Maria BELDIGA	
18.30 - 18.55	Cristian CEMÎRTAN	Internationalising programming languages using regular expressions
	Section 5. Didactics of N	Iathematics and Informatics, Room 404, Building 4
	Chairperson:	Maria CRISTEI
11.00 - 11.25	Andrei BRAICOV	Classic number problems solved by algorithms without control structures: educational insights
11.30 - 11.55	Angela GLOBA	Probleme de geometrie computațională în contextul competițiilor de programare
12.00 - 12.25	Larisa SALI*, Marcel TELEUCA	Current issues and challenges in the education of mathematically gifted students
12.30 - 12.55	Tatiana PAṢA*, Doina USACI	Digitalizarea învățământului superior
13.00 - 15.00		Lunch break
	Chairperson:	Lilia SOLOVEI
15.00 - 15.25	Marcel TELEUCA*, Larisa SALI	Some applications of Eisenstein ring properties to solving competition problems in number theory
15.30 - 15.55	Galina SPRINCEAN*, Lilia SOLOVEI	Retraining in mathematics: between necessity and efficiency – solutions for optimizing the impact on the educational system
16.00 - 16.25	Mihail CROITOR	The use of artificial intelligence in Essay-type question assessment
16.30 - 17.00	Coffee break – room 222, Building 4	
	Chairperson:	Galina SPRINCEAN
	Chanperson.	Guilla ST Hill (CETTI)

17.30 – 17.55	Ion JARDAN*, Andrei CORLAT	Metoda coeficienților nedeterminați în integrarea funcțiilor raționale
18.00 - 18.30	Simona-Maria BUCURENCIU*, Ion ACHIRI	Algoritmul aplicării metodei descoperirii în predarea-învățarea matematicii în liceu
18.30 - 18.55	Mariana BUTNARU*, Greta STURZA	Rolul limbajelor formale în dezvoltarea gândirii computaționale la studenți
19.00 - 19.25	Sergiu PERETEATCU	Realizarea aplicațiilor de suport pentru cursul "Grafică 2D pe calculator"
19.30 - 19.55	Boris ȚARĂLUNGĂ	About the diophantine equation $1/w+1/x+1/y+1/z = 1/n$

SATURDAY, JUNE 28, CHIȘINĂU TIME, GMT/UTC+3		
Plenary session, Room 405 Building 4		
	Chairperson:	Parascovia SÂRBU
09.00 - 09.40	Poom KUMAM Sani SALISU	Fixed point iterative techniques for solving nonlinear convex optimization problems
09.45 - 10.25	Ales DRAPAL	Quadratic quasigroups, nearfields and associative triples
10.30 - 11.00		Coffee break – room 222, Building 4
	Section 1. Algebra, Geometry and Topology, Room 213a, Building 4	
	Chairperson:	Andrei RUSU
11.00 - 11.25	Elena COJUHARI *, Barry GARDNER	Generalized monoid rings and applications
11.30 – 11.55	Valeriu POPA	On LCA groups whose closed polythetic subgroups have commutative ring of continuous endomorphisms
12.00 - 12.25	Elizaveta ZAMORZAEVA	Using symmetry elements on hyperbolic riemann surfaces
12.`30 – 12.55	Oyeyemi Oluwaseyi OYEBOLA	On the characterization of extra polyloop and its applications to genetic interactions
13.00 - 15.00		Lunch break
	Chairperson:	Elena COJUHARI
15.00 - 15.25	Andrei RUSU *, Elena RUSU	On existential expressibility of terms in a topological boolean algebras with 2 open elements
15.30 - 15.55	Serban VLAD	On the generalized technical condition of proper operation
16.00 - 16.25	Eugene KUZNETSOV	Isomorphisms of projective planes and corresponding transformations of coordinating pair loops
16.30 - 17.00	Coffee break – room 222, Building 4	

Section 2. Analysis, Differential Equations and Dynamical Systems, Room 405 Building 4		
	Chairperson:	Mihail POPA
11.00 - 11.25	Alexandru ŞUBĂ	Center conditions for cubic differential systems with two affine non-parallel invariant straight lines of total multiplicity three
11.30 - 11.55	Dumitru COZMA* Angela MATEI	Center conditions for a cubic system with one invariant straight line and one invariant conic
12.00 - 12.25	Cristina BUJAC* Nicolae VULPE	A family of cubic systems with invariant straight lines in the configuration of the type (3, 2, 1)
12.30 - 12.55	Victor PRICOP* Lidia MUȘINSCHI	The $GL(3, \mathbb{R})$ -Lie algebra admitted by the differential system $s^3(1, 3)$
13.00 - 15.00		Lunch break
	Chairperson:	Cristina BUJAC
15.00 - 15.25	Olga VACARAS	Quartic differential systems with a center-focus critical point and two parallel complex invariant straight lines of maximal multiplicity
15.30 – 15.55	Wiyada KUMAM Muhammad SAQLAIN Poom KUMAM	Half a Century of Fixed Point Theory Research in Thailand: A Bibliometric Analysis
16.30 - 17.00		Coffee break – room 222, Building 4
	Section 3. Ap	plied Mathematics, Room 423 Building 4
	Chairperson:	Ludmila NOVAC, Boris HÎNCU
11.00 - 11.25	Boris HÎNCU <sup>*</sup> , Calin TURCANU	Informational extensions in mixed-strategy matrix game
11.30 – 11.55	Vladimir MURSA <sup>*,</sup> Boris HÎNCU	Mathematical and computational framework for wave-neural modeling

12.00 - 12.25	Dinara BUCILA <sup>*</sup> ,	Parallel algorithms in encryption problems
12.00 12.23	Boris HÎNCU	i araner argoritannis in eneryption problems
12.30 - 12.55	Ludmila NOVAC	Valuation of option contracts: the discrete case
13.00 - 15.00		Lunch break
	Section 4. Comp	outer Science and IT, Room 145, Building 4
	Chairperson:	Tudor BUMBU
11.00 – 11.25	Inga ȚÎȚCHIEV <sup>*</sup> , Olesea CAFTANATOV, Dan DANCUȚA, Arcadie FRON	Cultivating awareness: using augmented reality to combat plant blindness in home environments
11.30 - 11.55	Tudor BUMBU <sup>*</sup> , Eugeniu PLAMADEALA	On semantic segmentation of moldavian dialect maps
12.00 - 12.25	Olga POPCOVA, Elena GUȚULEAC, Iulian SECRIERU <sup>*</sup>	Study on the longevity perspectives of information tools used in medical diagnostics
12.30 - 12.55	Iulian SECRIERU <sup>*</sup> , Carolina ȚÂMBALĂ, Andrei RUSU, Ana NASTASIU	Improving the interpretability of scoring systems through graphical visualization
13.00 - 15.00	Lunch break	
	Chairperson:	Titu CAPCELEA
15.00 - 15.25	Maria ROTARU	Reliability of serial-parallel and parallel-serial networks with a variable number of subnetworks and a constant number of units
15.30 - 15.55	Valentina DEMIDOVA, Tatiana VERLAN <sup>*</sup>	Classification elaboration for the digitized handwritten archive of school math problems of the teacher and scientist B. Cinic

16.00 - 16.25	Aurelia PROFIR	Extended model of SOS regulon switching: the role of cooperative processes in system regulation
16.30 - 17.00		Coffee break – room 222, Building 4
	Chairperson:	Maria CAPCELEA
17.00 - 17.25	Alexandr PARAHONCO <sup>*</sup> , Liudmila PARAHONCO	Behind the words: what drives text complexity?
17.30 – 17.55	Dan LEFTER <sup>*</sup> , Maria CAPCELEA, Vitalie URSACHI	Predictive analysis of university enrollment trends using statistical modeling and AI techniques
18.00 - 18.25	Dan DANCUȚA <sup>*</sup> , Dimitrii BUMBAC	3D Unity roguelite horror shooter
18.30 - 18.55	Svetlana CONIUC <sup>*</sup> , Alexei RUSANOV	Mathematical analysis of information security threats in advanced metering infrastructure
19.00 - 19.25	Vlada COLESNICOVA <sup>*</sup> , Argentina FRON, Daniela CAGANOVSCHI	Comparative evaluation of AI-powered image generation platforms
	Section 5. Didactics of M	Iathematics and Informatics, Room 404, Building 4
	Chairperson:	Lilia SOLOVEI
11.00 - 11.25	Dumitru IEȘEANU <sup>*</sup> , Tudor BRAGARU, Gabriela Cristina BRĂNOAEA	Potențialul e-testării pe Moodle pentru studiul matematcii și informatcii
11.30 - 11.55	Ilie ANDRONIC*, Eugen PÎRVAN, Anatol GOREA	Învață programarea, verifică cu coderunner pe Moodle
12.00 - 12.25	Gabriela Cristina	Potențialul jocurilor tematice pe Moodle pentru consolidarea cunoștințelor

12.30 - 12.55	BRĂNOAEA*, Tudor BRAGARU, Dumitru IEȘEANU Ecaterina IEȘEANU*, Georgiana DRĂGAN, Gabriela Cristina BRĂNOAEA	Învațarea matematicii prin itemi parametrizați
13.00 - 15.00	Lunch break	
	Chairperson:	Maria CRISTEI
15.00 - 15.25	Dumitru BOTNARU*, Alina ȚURCANU	Despre funcții multivalorice
15.30 - 15.55	Alina ȚURCANU*, Rita DOMENTEAN	Despre progresii
16.00 - 16.25	Anastasia OCERETNÎI*, Maria CRISTEI	Aplicarea software-ului specializat în analiza calitativă a datelor
16.30 - 17.00		Coffee break – room 222, Building 4
	Chairperson:	Maria CRISTEI, Lilia SOLOVEI
17.00 - 17.25	Llia SOLOVEI*, Galina SPRINCEAN	Individualization of mathematics education in university education: problems and technologies
17.30 - 17.55	Maria CRISTEI	Aplicarea inteligenței artificiale în monitorizarea curriculumului școlar
18.00 - 18.30	Ludmila NOVAC	Statistical methods used in insurance
18.30 - 19.00	Ghenadie MARIN	Setarea și utilizarea opțiunilor în aplicația "EXPLORINGBMP"

SUNDAY, JUNE 29, CHIȘINĂU TIME, GMT/UTC+3		
08.30 - 17.00	Excursion	