

1 Day 1: Thursday, the 20th of November

9.30 – 10.00		Registration Hall 2.1 - Library Building	
10.00 – 10.30		Opening Ceremony Hall 2.1 - Library Building	
10.30 – 13.00		KNS – Moderator: Antonela Toma	
	10.30 – 11.10	Jorge Jimenez Urroz , Universidad Politecnica de Madrid, Spain <i>Factoring RSA moduli with extra information</i>	
	11.10 - 11.40	Coffee break	
	11.40 – 12.20	Radu State , University of Luxembourg, Luxembourg <i>Attacking LLMs</i>	
	12.20 – 13.00	Emil Simion , National University of Science and Technology POLITEHNICA Bucharest, Romania <i>Bridging the Gaps: Cyber Resilience Assessment and Certification: from Standards to Practice in the Context of NIS2, CSA & CRA</i>	
13.00 – 14.00		Lunch	
14.00 – 17.30		Parallel Sessions	
	14.00 – 15.30	Hall 2.1 Moderator: Elena Corina Cipu	Hall CE 304 Moderator: Vasile Pop
		Laurance Fakih - On A Model Of Rumors Spreading Through Social Media	Ioana Monica Masca - About Some Exponential Equations
		Romain Mrad, Mario Lefebvre - Average Overshoot Of Jump-Diffusion Processes	Florin Bojor, Magnolia Anda Tilca – Noncommutative Groups
		Andrei-Vasile Spoială, Mihai-Ştefan Curpăn, Andrei Manta, Antonela Toma, Răzvan Moraru - Prerequisite Conditions For Maintaining The Nuclear Transmutation In Laser-Driven Subcritical Reactors	Nicolae Muşuroia - Similarity In The Complex Plane
		Diana Radu, Alex-Andra Cristache, Antonela Toma, Răzvan Moraru - A Research On The Possibility To Safely Use The Raman Spectroscopy In-Vivo	Vasile Pop - Integer Matrices That Leave Remarkable Functions Invariant
		Victor Dorca, Nicoleta-Cătălina Mitu, Antonela Toma, Răzvan Moraru - Bridging Classical Imaging And Quantum Information	Maria-Giulia Gheorghiu - Optimizing Lessons Through Mathematical Models Of Attention And Retention Dumitrescu Dan-Stefan – Double Counting – The Secret Key In The Architecture Of Mathematical Problem Solving Simona Bucurenciu - Using Discovery Method To Uncover The Mathematics Behind A Magic Card Trick

		<p>Andrada-Livia Cirneanu, Cristian-Emil Moldoveanu, Alin-Constantin Sava, Linko Nikolov, Giulia Boetti, Bartosz Kozicki - Integrating Digital Mathematics And Artificial Intelligence In Modern Defence Education</p> <p>Diana Rodica Radnef-Constantin, Dumitru Popescu – Analytical Solution Of The Pulsatory Liposome Using The Concentration Hypothesis And Trigonometric Approximation</p> <p>Andreea Ioana Bordianu - Sdepth And Hdepth Of Some Classes Of Edge Ideals Of Graphs</p> <p>Mircea Cimpoeas - Weak Almost Monomial Groups And Artin`S Conjecture</p> <p>Cristian-Emil Moldoveanu - Mathematical Modelling Of Instabilities In Counter-Rotating Vortex Pairs</p>	<p>Vlad-Andrei Perpelea - An Application Of Perron–Frobenius Theory For Positive Matrices</p> <p>Sorin Ulmeanu - Newton’s Identities And Their Applications To University Admission Problems</p> <p>Andrei Pană, Robert Pop, Robert Rogozsan - Cazul De Egalitate În Inegalitatea Lui Sylvester</p> <p>Petru Marian Braica - Transition From Incenter To Excenter, A Source Of New Problems</p> <p>Gheorghe Boroica - Algebraic Identities As Sources Of Problems</p> <p>Robert Berezovski - Artificial Intelligence: An Urgent Need In Initial Teacher Training</p>
	15.30 – 16.00	Coffee Break	
	16.00 – 17.30	Hall 2.1 Moderator: Simona Mihaela Bibic	
		<p>Iulian-Nicolae Petriia, Antonela Toma, Octavian Postăvaru - Deploying A Light Model For Analysing Thyroid Tumors. A Mathematical Approach</p> <p>Elvis-Costin Țucă, Sorin-Teodor Chicuş - Algorithmic Optimization Of Low-Voltage Electrical Networks</p> <p>Kaan Nasurla - Design And Mathematical Modeling Of A Device For Detecting And Locating Potentially Dangerous Sounds In The Forest</p> <p>Denis-Gabriel Codreanu - Predicting A Player’s Performance In Electronic Sports</p> <p>Andrei-Adrian Răgman, Cătălin-Marius Duță - Integrating Fit And Interpretability: A Penalized Optimization Framework For Exploratory Factor Analysis</p> <p>Alin-Teodor Bratu - Probabilistic Analysis Of Skip List Search Complexity</p> <p>Stefan Bejenescu-Babusanu - Uncertainty-Aware Cost Field Fusion And Time-Consistent Planning For Bfmc Autonomous Vehicles</p> <p>Ana-Maria Marin, Calin-Tudor Topan, Mihai Rebenciuc, Antonela Toma - Elements Of Climate And Related Analysis In The Context Of Pseudomatrix Technologies</p> <p>Alexandru-Valentin Avram, Ruxandra-Mihaela Ceauşu - Python-Based Data Fitting For Gaussian, Poisson And Landau Distributions</p>	
	17.30 – 19.00	Dinner	

Day 2: Friday, the 21st of November

9.30 – 10.00		Registration Hall 2.1 – Library Building	
10.00 – 12.00		KNS – Moderator: Antonela Toma	
	10.00 – 10.40	Ion Turcanu , Luxembourg Institute of Science and Technology, Luxembourg <i>Inter-UE Coordination in 5G New Radio Sidelink Communications</i>	
	10.40 – 11.10	Coffee break	
	11.10 – 11.50	Ştefan Cruceanu , "Gheorghe Mihoc - Caius Iacob" Institute of Mathematical Statistics and Applied Mathematics, Romanian Academy, Romania <i>Mathematics in surface water dynamics</i>	
	11.50 – 12.30	Cristian Doicin , National University of Science and Technology POLITEHNICA Bucharest, Romania <i>From Bayes to Neural Networks - Mathematical Ideas that Power Intelligence</i>	
12.30 – 14.00		Lunch	
14.00 – 17.30		Parallel Sessions	
	14.00 – 15.30	Hall 2.1 Moderator: Raluca Purnichescu Purtan	Hall CE 304 – Online Presentations Moderator: Irina Bradalexi
		Cristina Hretcanu - Some Remarks On Almost Hermitian Metallic Manifolds And Their Submanifolds Bogdan Sebacher, Silvia Marzavan - Comparison Of Element-Free Galerkin And Indicator Kriging Approaches In Updating Facies Probability Fields Kaan Nasurla - From Fixed Points To Fractal Maps: A Mathematical Modeling For Early Pathological Identification In Medical Imaging Liviu Ignat - Approximations Of The Best Constants Stefan Garoiu - The Represnetation Of The Limit Of Power Series Of Positive Linear Operators Using The C_0 -Semgiroup Generated By Thier Iterates Valeria Cîrlan - A Comprehensive Review Of Convex Functions: Classifications, Properties, And Applications	Mohamad Nasser - Representations Of A Group And Their Extensions To The Singular Braid Monoid Olfat Al Lakkies - Stability Analysis In A Mutualism Model With Two Discrete Delays Ghezzar Mohammed Amine - Control With Minimum Energy Problem For A Singular Two-Dimensional Continuous–Discrete Linear Systems Kamel Benyettou, Djillali Bouagada, Ghezzar Mohhamed Amine - A Novel Approach To Solving Conformable Fractional 2d State Space Continuous-Time Linear Systems Bogdan Maxim - A Doubly Nonlinear Parabolic Problem With Variable Exponents, Homogeneous Neumann Conditions And Generalized Logistic Source Mahmoud A. Ibrahim - Global Dynamics Of A Tumor Growth Model With Three Mechanisms Kissi Mohammed El Amine, Abdelkader Lakmeche, Andrei Halanay, Mohammed Bouizem, Mohamed

	<p>Radu Gaba - Implementing C++ Computer Programs For Some Classes Of Complex Elliptic Curves</p> <p>Bianca Vasian - Generalized Kantorovich Operators</p> <p>Bianca-Maria Colan, Andrei-Ionuț Danescu, Emil Simion - Adaptive Communication Security Using Ai-Driven Crypto-Agility</p> <p>Emil Simion, Bogdan Costel Mocanu, Florin Nastase - Statistical Evaluation Of Entropy Generators: Analysis Of Second-Order Errors In Nist Sp 800-22 Tests</p> <p>Kusko Cristian, Emil Simion - Quantum Communications At Imt Bucharest And Bluespace Technology</p>	<p>Helal - Understanding Xylella Fastidiosa Spread In Olive Trees Through Delay Differential Modeling</p> <p>Mansouria Saidani - Aalysis Of Solutions For Higher Order Linear Difference Equations With Finite Φ - Order Coefficients</p> <p>Mohammed Nadjib Benamar, Mohammed Amine Ghezzar, Djillali Bouagada - On The Controllability Of Positive Fractional 2d Continuous-Time Linear Systems</p> <p>Marilena Ciontescu - A Variational Approach To Optimal Control With Generalized Invariant Convex Interval-Valued Functionals</p> <p>Marius-Alin Dragu - On A Tumoral Growth Model With Constrained Curvilinear Integral Functionals And Gradient-Type Variations</p> <p>Souad Salmi, Djillali Bouagada - A New Perspective On The Lml Region And D_D Stability Of Fractional Multidimensional State-Space Models</p> <p>Stefan-Razvan Anton - Fractional Parameter Fusion For Cnn Model Version Merging</p> <p>Abdelaziz Oualid - Boundary Value Problems For Fractional Differential Inclusions With Caputo-Hadamard Type Derivative</p> <p>Nisrine Miliani, Djillali Bouagada, Kamel Benyettou - Analytical Methods For Stabilizing Fractional Multidimensional Discrete</p> <p>Ana-Gabriela Tămaș, Mircea Șușcă - Numerical Methods For Solving Sylvester And Lyapunov Equations: Challenges And Implementation In Matlab</p> <p>Alina-Claudia Precup, Mircea Șușcă, Vlad Mihai Mihaly - Convex Formulation Of Approximate Feedback Linearization And Convergence Rate Control</p> <p>Albescu Oana - Connections Between Exponential And Polynomial Concepts For Random Semi-Dynamic Systems</p> <p>Andreea Cunțan - On The Upper Bound Of The Third Hankel Determinant For The Class Of Starlike Functions Of Order A</p>
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	15.30 – 16.00	Coffee Break
	16.00 – 17.30	<div>Hall 2.1 Moderator: Ioana Bogdan</div> <div>Hall 2.2 Moderator: Elena Corina Cîpu</div>
		<div> <p>Iustin Markis, Vlad Mihaly - Neural Network-Based Feedback Linearization For Non-Smooth Tracking</p> <p>Mihnea-Andrei Vitejeanu, Matei Buliga, Paul-Andrei Ungureanu - Dimensional Scaling For Solving Diverse Computational Problems</p> <p>David-Theodor Ionita, Ioana Corina Bogdan - Development Of A Self-Hosted Personal Cloud Server With Iot Integration And Remote Access Capabilities</p> <p>Adela Ionescu - On The LMI Feasibility In Analyzing The Stability Of 2d Dynamical Systems. The Case Of Systems Arising From Excitable Media</p> <p>Andrei Ghenoiu, Ana-Maria Marin, Mihai Rebenciuc, Emil Simion - Alternative Transport Routes In The Context Of Pseudomatrix Technologies And Real-Time Management</p> <p>Ion-Nicholas-Anthony Berechet, Andrei-Valentin Nae, Edward-Mircea Stiop, Simona Mihaela Bibic, Diana Rodica Radnef-Constantin - Differential Wrapper Hierarchical Qpsk Under Atmospheric Impairments For Cubesat Communications</p> <p>Eduard Kec, Robert Kec - Vector Calculus And Signal Theory With Applications In Engineering</p> <p>David-Theodor Ionita, Ioana Corina Bogdan, Horia Alexandru Modran - Development Of A</p> </div> <div> <p>Andreea Cristina Mitru, Dana Danciulescu - Considerations Regarding Intelligent Data Validation Systems</p> <p>Eduard-Ștefan Sandu - From Vulnerability To Resilience In The Necessity Of Multi-Factor Approaches In Signature Verification</p> <p>Ștefan-Cătălin Petrescu, Elena Corina Cîpu - Mathematical Modeling And Machine Learning Approaches For Predicting Online Course Dropout Probability</p> <p>Simona Mihaela Bibic, Mara Muntenașu, Petru-Cristian Grănescu, Flavius Lung, Andreea-Teodora Cornea - Designing Hybrid Library Systems With Evolving Technologies</p> <p>Mihnea-Ioan Stănilă, Raul-Cosmin Guriencu, Simona Mihaela Bibic - Federated Tinyml Framework For Adaptive Ai Agents In Implantable Neural Chips</p> <p>Simona Mihaela Bibic, Nicoleta Popa, Vlad Dicu - A New Era Of Learning: Ai Digital Support For Academic Communities</p> <p>Teodora-Georgiana Banu, Elena-Sorina Niculăesa, Emil Simion - Fractal Parameter Steganography: Encoding Information In The Mathematics Of Images</p> <p>Elena Corina Cîpu, Vasile Nicolae Stănciulescu, Vasile Preda - Numerical Methods For Sdes With Economic Applications</p> </div>

	<p>Self-Hosted Personal Cloud Server With Iot Integration And Remote Access Capabilities</p> <p>Elena Corina Cipu, Ruxandra-Ioana Cipu, Teodor Andrei Cipu - Parameter Analysis In Electrosinning Process</p> <p>Alexandra-Maria Borş, Simona Mihaela Bibic, Andreea Milosteanu - Visual Ai-Based Assistant For Enhanced Driving Awareness And Safety</p>	
17.30 – 19.00	Dinner	

Day 3: Saturday, the 22nd of November

11.00 – 12.00	Hall 2.1 Round Table: <i>Smart Universities: The AI Revolution in Higher Education Education</i>	
12.00 – 13.30	Lunch	
13.30 – 15.00	Hall 2.1 Discussions: <i>AI, Mathematics, and the Evolution of Academic Knowledge in the Digital Age Universities of Tomorrow</i>	
15.00 – 15.30	Coffee Break	
15.30 – 16.30	Closing Ceremony	
Location:	<p>Splaiul Independenței nr. 313, sector 6, Bucharest (the main campus)</p> <p>All the meetings take place in one of the following 3 Halls: 2.1, 2.2, CE 304, more precisely:</p> <ul style="list-style-type: none"> Halls 2.1, 2.2 are located within the <i>Library Building</i> CE304 is located within the <i>FIIR Building</i> <p>that are situated within the university campus as the map illustrates:</p>	

Universitatea POLITEHNICA din București

Conference Halls Location

Splaiul Independenței nr. 313, sector 6

- IE Facultatea de Inginerie Electrică
- EN Facultatea de Energetică
- AC Facultatea de Automatică și Calculatoare
- IMM Facultatea de Inginerie Mecanică și Mecatronică
- IMST Facultatea de Inginerie și Managementul Sistemelor Tehnologice
- ISB Facultatea de Ingineria Sistemelor Biotehnice
- Tr Facultatea de Transporturi
- SIM Facultatea de Știință și Ingineria Materialelor
- ILS Facultatea de Inginerie în Limbi Străine
- ȘA Facultatea de Științe Aplicate
- AIMA Facultatea de Antreprenariat, Ingineria și Managementul Afacerilor
- DFCDSSU Departamentul de Formare pentru Carieră Didactică și Științe Socio-Umane
- CCC Centrul de Conferință și Cultură
- EPP Editura Politehnica Press
- Rectorat

