



**ISIM & ISWIM 2024** 3<sup>rd</sup> Edition - International Symposium & International Student Workshop  
26-28 June 2024, Bucharest, Romania  
on Interdisciplinary Mathematics in the CITI areas

Day-1  
Wednesday 26th June 2024

Access link: ... follow email

Bucharest Time		REGISTRATION		WELCOME		LOCATION: LIBRARY BUILDING, 4th FLOOR, ROOM 4.1	
9:00-9:30	9:30-10:30	Opening Ceremony					
10:30-11:00	Plenary Room: 4.1	Plenary Lecture Speaker: Title: Chair: Live	General Director Dan CÎMPEAN, Romanian National Cyber Security Directorate <i>Innovative Cyber Tactics, Techniques, and Procedures (TTPs)</i> Prof. Antonela TOMA, Prof. Emil SIMION				
11:00-11:30	Plenary Room: 4.1	Plenary Lecture Speaker: Title: Chair: Online	Prof. Rob HAELTERMAN - Royal Military Academy, Brussels, Belgium <i>Hyperspectral imaging for defence &amp; data reduction techniques</i> Prof. Antonela TOMA, Prof. Emil SIMION				
11:30-12:00	Plenary Room: 4.1	Plenary Lecture Speaker: Title: Chair: Online	Prof. Ioannis DASSIOS, University College Dublin, Ireland <i>Optimization, Dynamical Systems, &amp; Mathematics of Networks for Engineering</i> Prof. Antonela TOMA, Prof. Emil SIMION				
COFFEE BREAK							
12:30-13:00	Plenary Room: 4.1	Plenary Lecture Speaker: Title: Chair: Online	Prof. Dr. Rathinasamy SAKHIVEL - Bharathiar University, India <i>Lyapunov Stability Theory in Modern Control Systems</i> Prof. Antonela TOMA, Prof. Emil SIMION				
13:00-13:30	Plenary Room: 4.1	Plenary Lecture Speaker: Title: Chair: Live	Prof. Jerzy GAWINECKI - Military University of Technology, Warsaw, Poland <i>Mathematical and physical aspects of the solution to the initial value problem in the thermodiffusion in solid body with applications in mechanical engineering</i> Prof. Antonela TOMA, Prof. Emil SIMION				
LUNCH BREAK - Library Building							
ISIM Room 3.1, Library Building, UPB Access link: ... follow email Moderators Prof. Ioana Corina BOGDAN, Prof. Luciana MOROGAN				ISWIM Room 3.2, Library Building, UPB Access link: ... follow email Moderators Prof. Elena Corina CIPU, Prof. Mihaela PRICOP-JECKSTADT			
15:00-15:15	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	*Stanisław KACHEL, *Jerzy GAWINECKI, *Adam KOZAKIEWICZ *Faculty of Mechatronics, Armament and Aerospace, Military University of Technology, Warsaw, Poland <i>Mathematical and physical aspects of the solution to the initial value problem in the thermodiffusion in solid body with applications in mechanic.</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	*Vasile POP, *Constantin-Cosmin TODEA *Technical University of Cluj-Napoca, Cluj-Napoca, Romania <i>On some properties of sylvester matrix rank functions</i>
15:15-15:30	Section 2 Room: 3.1	Live Authors: Affiliation: Title:	*Alexandru-Marian GALEA, *Bogdan SEBACHER, *Silvia MARZAVAN *Military Technical Academy 'Ferdinand I' of Bucharest, Bucharest, Romania <i>Automatic detection of objects chromatic components in images</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	*Miruna-Elena TĂLMĂCEL, *Laurențiu-Alexandru ZAHARIA, *Alex-Ionuț MARINESCU, *Simona Mihaela BIBIC *Ana-Maria DUMITRESCU *National University of Science and Technology POLITEHNICA Bucharest & Citi, Romania <i>Markov chain approach for IOT plant watering system</i>
15:30-15:45	Section 2 Room: 3.1	Online Authors: Affiliation: Title:	*Douae DEN GUIR, *Latifa BOUTAT-BADDAS *Université de Lorraine, IUT de Longwy, Longwy, France <i>Implementation of an efficeint supervision system for LORA gateways in farm environments</i>		Section 4 Room: 3.2	Live Authors: Affiliation: Title:	*Alexandra TEODOR *POLITEHNICA Bucharest; Simion Stoilow Institute of Mathematics of the Romanian Academy, Bucharest, Romania <i>Positive solutions to semilinear Dirichlet problems with general boundary data</i>
15:45-16:00	Section 1 Room: 3.1	Live Authors: Affiliation: Title:	*Roxana DOBRE, *Bogdan SEBACHER, *Silvia MARZAVAN *Military Technical Academy 'Ferdinand I' of Bucharest, Bucharest, Romania <i>Geological soft data integration to facies probability fields using a regularised element Galerkin method</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	*Ion CEBAN, *Ștefan LUNCANU, *Andrei ZABREANU, *Corina Elena CIPU, *Antonela TOMA *National University of Science and Technology POLITEHNICA Bucharest & Citi, Romania <i>Exploring Exergy Models: Investigating Connections with Negentropy and Heat Transfer for Thermodynamic Efficiency Analysis</i>
16:00-16:15	Section 1 Room: 3.1	Live Authors: Affiliation: Title:	*Tudor SIRETEANU, *Ana-Maria MITU, *Catalin-Andrei NEAGOE, *Mirela-Roxana APSAN, *Nicolae POP *Solid Mechanics Institute (IMSAR), Bucharest, Romania <i>Non-destructive methods based on the vibration response of some structural elements made of composite materials of composite materials</i>		Section 1 Room: 3.2	Live Authors: Affiliation: Title:	*Cosmin BUCĂȚARU *Transilvania University of Brașov, Brașov, Romania <i>New Derivation Operators and their Applications in Dual Finsler Geometry</i>
16:15-16:30	Section 1 Room: 3.1	Online Authors: Affiliation: Title:	*Rawan ABDULLAH, *Andrei HALANAY, *Laurance FAKIH, *Irina BADRALEXI *Politehnica University of Bucharest, Bucharest & Citi, Romania <i>Mathematical Modeling of Immune Dynamics in Chronic Myeloid Leukemia Therapy: Unraveling Allergic</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	*Alexandra-Maria BORS, *Andrei-Robert COMAN, *Simona-Mihaela BIBIC *National University of Science and Technology POLITEHNICA Bucharest & Citi, Romania <i>Game of green: Strategies for sustainability in the battle between electric and diesel cars</i>
COFFEE BREAK							
ISIM Room 3.1, Library Building, UPB Access link: ... follow email Moderators Prof. Ioana Corina BOGDAN, Prof. Luciana MOROGAN				ISWIM Room 3.2, Library Building, UPB Access link: ... follow email Moderators Prof. Elena Corina CIPU, Prof. Mihaela PRICOP-JECKSTADT			
17:00-17:15	Section 1 Room: 3.1	Online Authors: Affiliation: Title:	*Mohammed GHEZZAR, *Djillali BOUAGADA, *Kamel BENYETTOU, *Mohammed CHADLI, *Paul VANDOOEN *National Higher School O F Mathematics, Algeria, Algeria *University Abdelhamid Ibn Badis Of Mostaganem, Mostaganem, Algeria *Paris-Saclay University, IBISC Lab, UEVE, Paris, France *ICTEAM, Université Catholique de Louvain, Bruxelles, Belgium <i>On the stability of 2D general Roesser Lyapunov systems</i>		Section 1 Room: 3.2	Online Authors: Affiliation: Title:	*Abdelaziz OUALID, *Samira HAMANI *Abdelhamid Ibn Badis University Mostaganem, mostaganem, Algeria <i>Boundary value problems for fractional differential inclusions with Q-Caputo type derivative</i>
17:15-17:30	Section 1 Room: 3.1	Online Authors: Affiliation: Title:	*Bogdan MAXIM *Costache Negruzzi National College, Iasi, Romania <i>A Fisher-type evolution equation with applications in image processing</i>		Section 2 Room: 3.2	Live Authors: Affiliation: Title:	*Georgiana CRETU, *Simona Mihaela BIBIC *National University of Science and Technology POLITEHNICA Bucharest & Citi, Romania <i>Fraud Detection System for Online Transactions</i>

17:30-17:45	Section 1 Room: 3.1	<b>Online</b> Authors: Affiliation: Title:	<b><sup>1</sup>Kamel BENYETTOU, <sup>2</sup>Djillali BOUAGADA</b> <sup>1</sup> National Higher School Of Mathematics, Algeria, Algeria <sup>2</sup> University Abdelhamid Ibn Badis Of Mostaganem, Mostaganem, Algeria <i>On the Admissibility of Fractional Singular Continuous-Time Systems Using Caputo Derivative: An LMI Approach</i>	Section 4 Room: 3.2	<b>Online</b> Authors: Affiliation: Title:	<b><sup>1</sup>Yassine HAJEJ, <sup>1</sup>Mohamed BOUTAYEB, <sup>1</sup>Latifa BOUTAT-BADDAS</b> <sup>1</sup> UT de Longwy, CRAN, Université de Lorraine, Longwy, France <i>Design and implementation of cable-driven robot carrying a platform for object recognition and 3D reconstruction</i>
17:45-18:00	Section 2 Room: 3.1	<b>Online</b> Authors: Affiliation: Title:	<b><sup>1</sup>David Theodor IONIȚĂ, <sup>1</sup>Ioana Corina BOGDAN, <sup>1</sup>Horia Alexandru MODRAN</b> <sup>1</sup> Transilvania University of Braşov, Braşov, Romania <sup>2</sup> Transilvania University of Braşov & Citi, Braşov, Romania <i>Innovative Approaches in Education with AI-Powered Virtual Assistants</i>	Section 3 Room: 3.2	<b>Online</b> Authors: Affiliation: Title:	<b><sup>1</sup>Nadia ALLOUCH</b> <sup>1</sup> University of Mostaganem, Mostaganem, Algeria <i>Existence of Initial Value Problem for Impulsive Fractional q-Difference Equations in Banach Space</i>
18:00-18:15	Section 3 Room: 3.1	<b>Online</b> Authors: Affiliation: Title:	<b><sup>1</sup>Wafa HERRI, <sup>1</sup>Khalid BENMOUSSA</b> <sup>1</sup> Engineering sciences laboratory (LabSI), Ibnou Zohr University, Agadir, Morocco <i>A reformulation of the LeSaint-Raviart Discontinuous Galerkin Level-Set approach for free surface flow</i>	Section 3 Room: 3.2	<b>Live</b> Authors: Affiliation: Title:	<b><sup>1</sup>Radu-Adrian MIHAI</b> <sup>1</sup> National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>An MLP Model That Optimises The Scheduling Of Shift Personnel Working A 12-Hour Day/Night Shift</i>
18:30	LIGHT DINNER					

**Section 5 FIIR Room CE304 3rd Floor**  
**Wednesday 26th June 2024**

<b>Bucharest Time</b>						
Moderators: Prof. Vasile POP, Prof. Alexandru NEGRESCU						
15:00-15:15	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Ioana Monica MASCA</b> <sup>1</sup> Colegiul Național de Informatică "Grigore Moisil", Braşov, Romania <i>Dimitrie Pompeiu's Theorem</i>			
15:15-15:30	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Ovidiu Tiberiu POP, <sup>1</sup>Marius DRAGAN</b> <sup>1</sup> Colegiul Național Mihai Eminescu, Satu Mare, Romania, <sup>2</sup> Colegiul Tehnologic "Mircea Cel Bătrân" Bucureşti, Romania <i>Some inequalities involving the sums</i>			
15:30-15:45	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Cristina HRETANU</b> <sup>1</sup> Stefan cel Mare University, Suceava, Romania <i>On some generalizations of the golden proportion</i>			
15:45-16:00	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Vladimir CERBU, <sup>2</sup>Nicolai GAITAN</b> <sup>1</sup> Military National College "Stefan cel Mare", Campulung Moldovenesc, Romania <sup>2</sup> Military Technical Academy "Ferdinand I", Bucharest, Romania <i>Differential equations with elementary approaches and solutions in high-school mathematical contests</i>			
16:15-16:30	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Alexandru BALTARIGA</b> <sup>1</sup> The International Computer High School of Bucharest, Bucharest, Romania <i>Applications of complex numbers in counting problems</i>			
16:15-16:30	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Dan-Stefan DUMITRESCU</b> <sup>1</sup> International Informatics High School, Bucharest, Romania <i>Olympiad problems solved using Mason-Stothers theorem</i>			
16:30-17:00	COFFEE BREAK					
17:00-17:15	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Cristi SAVESCU</b> <sup>1</sup> Romanian Mathematical Society, Bucharest, Romania <i>Configurations with <math>n</math> lines in general position</i>			
17:15-17:30	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Emilia-Claudia PREDA</b> <sup>1</sup> Colegiul Național Bilingv George Coşbuc, Bucureşti, Romania <i>Recurrent Sequences in Integral Calculus</i>			
17:30-17:45	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Alexandra BUNGHEZ, <sup>1</sup>Andrei POPESCU, <sup>2</sup>Emil SIMION</b> <sup>1</sup> Colegiul Național Matei Basarab, Bucuresti, Romania <sup>2</sup> National University of Science and Technology Politehnica Bucharest & CITI, Romania <i>A view on Cicero experiment</i>			
17:45-18:00	Section 5 Room: CE304	<b>LIVE</b> Authors: Affiliation: Title:	<b><sup>1</sup>VALERIA CIRLAN</b> <sup>1</sup> Universitea Stefan cel Mare, Suceava, Romania <i>The impact of mathophobia on the STEM community</i>			
18:00-18:15	Section 5 Room: CE304	<b>ONLINE</b> Authors: Affiliation: Title:	<b><sup>1</sup>Dan-Stefan MARINESCU, <sup>2</sup>Mihnea-Ionut MARINESCU</b> <sup>1</sup> Iancu de Hunedoara National College, Hunedoara, Romania <sup>2</sup> Babes-Bolyai University, Cluj-Napoca, Romania <i>Regarding a Theorem of Alexandru Lupas</i>			

Day-2  
Thursday 27th June 2024

Access link: ... follow email

Bucharest time																					
8:30-9:00	REGISTRATION																				
9:00-9:30	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Online		Assoc. Prof. Paul BOGDAN - University of Southern California, Los Angeles, United States <i>Artificial Intelligence (AI) for Science - Discovering Governing Laws from Data: Challenges and Opportunities</i> Prof. Andrei HALANAY, Prof. Luciana MOROGAN																	
9:30-10:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Online		Prof. Dr. Mostafa ADIMY - Senior Researcher at INRIA and Institut Camille Jordan, University Lyon <i>Continuous-Time Differential-Difference Models in Population Dynamics and Epidemiology</i> Prof. Andrei HALANAY, Prof. Luciana MOROGAN																	
10:00-10:30	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Live		Prof. Radu GOLOGAN - National University of Science and Technology POLITEHNICA Bucharest, Romania <i>From elementary to non-elementary and vice versa</i> Prof. Andrei HALANAY, Prof. Luciana MOROGAN																	
10:30-10:45	COFFEE BREAK																				
10:45-11:15	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Online		Prof. Dr. Marina MARCHISIO CONTE - University of Turin, Italy <i>Innovating Mathematics Learning and Teaching in Security and Defence Area</i> Prof. Andrei HALANAY, Prof. Antonela TOMA																	
11:15-11:45	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Live		Prof. Marius LEORDEANU - National University of Science and Technology POLITEHNICA Bucharest, Romania <i>Understanding Artificial Intelligence: From Vision and Language to Human-AI Interaction</i> Prof. Andrei HALANAY, Prof. Antonela TOMA																	
11:45-12:15	Section 3 Room: Senat	Plenary Lecture Speaker: Title: Chair: Live		Assoc. Prof. Andrei NEGUT- École Polytechnique Fédérale de Lausanne (Switzerland) <i>Quantum groups in geometry and physics</i> Prof. Andrei HALANAY, Prof. Antonela TOMA																	
12:15-12:45	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair: Online		Prof. Dr. Carla PINTO - Polytechnic University of Porto, Portugal <i>Inverse uncertainty quantification in stochastic systems: two case studies</i> Prof. Andrei HALANAY, Prof. Antonela TOMA																	
12:45-14:00	LUNCH																				
	ISWIM Moderators	Room 3.1, Library Building, UPB Access link: ... follow email Prof. Raluca PURNICHESCU-PURTAN, Prof. Irina BADRALEXI			ISWIM Moderator: Prof. Mariana Mirela STĂNESCU, Prof. Octavian POSTAVARU																
14:00-14:15	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Stefan CHIVULESCU, 'Stefan-Gabriel MINA 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Remarkable inequalities and operational research aplicability</i>		Section 4 Room: 3.2	Live Authors: Affiliation: Title:	'Silviu BĂLĂNESCU 'National University of Science and Technology Politehnica of Bucharest, Bucharest, Romania <i>Hilbert depth of some classes of monomial ideals</i>														
14:15-14:30	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Octavia-Maria HAPENCIUC 'Transilvania University of Brasov, Brasov, Romania <i>Study of the eigenvalues of STURM-LIOUVILLE problems under perturbations</i>		Section 4 Room: 3.2	Live Authors: Affiliation: Title:	'Mircea CIMPOEAS 'National University of Science and Technology Politehnica of Bucharest, Bucharest, Romania <i>Betti numbers of powers of path ideals of cycles</i>														
14:30-14:45	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Eduard-Ştefan SANDU 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Mastering the next wave of malware: an educational framework for ransomware</i>		Section 2 Room: 3.2	Live Authors: Affiliation: Title:	'Georgiana CREȚU, 'Veronica CONSTANTIN, 'Ana-Maria MARIN, 'Simona Mihaela BIBIC 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Burnout and academic performance: causes, impact and management strategies</i>														
14:45-15:00	Section 2 Room: 3.1	Live Authors: Affiliation: Title:	'Sorana-Eliza BALTARETU, 'Robert-Mihai PIVODA, 'Antonela TOMA, 'Mihai REBENCIUC 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Simulation Models for Strategic Decision Making: Games - Military VS Civil</i>		Section 2 Room: 3.2	Live Authors: Affiliation: Title:	'Cristian-Emil MOLDOVEANU, 'Alin-Constantin SAVA, 'Andrada-Livia CÎRNEANU 'Linko NIKOLOV, 'Nikolaos KARADIMAS, 'Marina MARCHISIO CONTE, 'Enrico SPINELLO, 'Magdalena RYKALA 'Military Technical Academy Ferdinand I, Romania, Bucharest, Romania 'National Military University Vasil Levski Bulgaria, Shumen, Bulgaria 'Hellenic Army Academy, Greece, Vari, Greece, 'University of Turin, Turin, Italy 'Education and Training Command and School of Applied Military Studies, Italy, Turin, Italy 'Military University of Technology, Poland, Warsaw, Poland <i>Digital Mathematics Applied in Defence and Security Education</i>														
15:00-15:15	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Ruxandra Ioana CIPU, 'Larisa Georgiana UNGUREANU 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>A statistical study of diabetes prevention research: Insights into glucometer-guided biomarker patterns</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	'Maria-Giulia GHEORGHIU, 'Iustinian-Costin TURCULET, 'Eduard-Constantin GEORGESCU, 'Radu-Marian ORIȚĂ, 'Simona Mihaela BIBIC, 'Ioana-Corina BOGDAN 'National University of Science and Technology POLITEHNICA Bucharest & Citi, Bucharest, Romania 'Transilvania University of Brasov & CITI, Brasov, Romania <i>IntegrityInsightAI: Authenticity Detection Application based on Facial Movements Using Artificial Intelligence</i>														
15:15-15:30	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Andrei GHENOIU, 'Sorana-Eliza BĂLTĂRETU, 'Robert-Mihai PIVODA, 'Antonela TOMA, 'Mihai REBENCIUC 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Differential-fractional games and international relations</i>		Section 3 Room: 3.2	Live Authors: Affiliation: Title:	'Maria-Giulia GHEORGHIU, 'Iustinian-Costin TURCULET, 'Eduard-Constantin GEORGESCU, 'Radu-Marian ORIȚĂ, 'Simona Mihaela BIBIC, 'Ioana-Corina BOGDAN 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania 'Transilvania University of Brasov, Brasov, Romania <i>INDOORPATH: Interactive map that improves accessibility and efficiency of any building</i>														
15:30-16:00	COFFEE BREAK																				

ISWIM		Room 3.1, Library Building, UPB Access link: ... follow email Prof. Raluca PURNICHESCU-PURTAN, Prof. Irina BADRALEXI		ISWIM		Room 3.2, Library Building, UPB Access link: ... follow email Moderator: Prof. Mariana Mirela STĂNESCU, Prof. Octavian POSTAVARU	
16:00-16:15	Section 2 Room: 3.1	Online Authors: Affiliation: Title:	'Ruxandra-Mihaela CEASU, 'Alexandru-Valentin AVRAM, 'Romeo BERCIA 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Fourier Series for functions with complex values. Application</i>	Section 4 Room: 3.2	Live Authors: Affiliation: Title:	'Andreea Ioana BORDIANU, 'Mircea CIMPOEȘ 'National University of Science and Technology Politehnica Bucharest, Bucharest, Romania <i>Remarks on the Stanley depth and Hilbert depth of monomial ideals with linear quotients</i>	
16:15-16:30	Section 3 Room: 3.1	Online Authors: Affiliation: Title:	'Alexandra Codruța NEAGU 'Military Technical Academy 'Ferdinand I', Bucharest, Romania <i>Mental conditions classification using social media data</i>	Section 3 Room: 3.2	Live Authors: Affiliation: Title:	'Alexia-Mirela DRĂGAN, 'Marian Nicolae POSOIU 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>A study of the regime transition to turbulent flow in bubble column</i>	
16:30-16:45	Section 2 Room: 3.1	Live Speaker: University: Title:	'Julian-Nicolae PETRIIA, 'Antonela TOMA, 'Octavian POSTAVARU 'National University of Science and Technology POLITEHNICA & Citi, Bucharest, Romania <i>Comparative analysis between alpha-beta-gamma filter and Kalman filter. Mathematical applications.</i>	Section 3 Room: 3.2	Live Authors: Affiliation: Title:	'Iuliana-Petruța-Diana SANDU 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Applied Mathematics in Machine Learning</i>	
16:45-17:00	Section 3 Room: 3.1	Live Authors: Affiliation: Title:	'Mariana Mirela STĂNESCU 'National University of Science and Technology Politehnica Bucharest & CITI, Romania <i>Entropy feature extraction in EEG-mathematical and biophysical approaches</i>	Section 3 Room: 3.2	Live Authors: Affiliation: Title:	'Andra Cristiana MARIA-FULAȘU, 'Ruxandra-Ioana CIPU, 'Stefan-Cătălin PETRESCU, 'Elena-Corina CIPU 'National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania <i>Modelling the Function of Immune Cells and Lymphatic System Flow</i>	
17:00-17:15	Section 1 Room: 3.1	Online Authors: Affiliation: Title:	'Fouzia SHILE, 'Mohamed SADIK 'Ibn Zohr University, Faculty of Sciences, Agadir, Morocco <i>Numerical simulation of water infiltration in heterogenous soils</i>	Section 1 Room: 3.2	Live Authors: Affiliation: Title:	'Miruna-Daniela ROȘU 'Faculty of Mathematics and Informatics, Transilvania University of Brașov, Brașov, Romania <i>Several inequalities related to linear and bounded operators</i>	
17:15-17:30	Section 2 Room: 3.1	Online Authors: Affiliation: Title:	'Chenzhong YIN, 'Phoebe IMMS, 'Mingxi CHENG, 'Nahian F. CHOWDHURY, 'Roy J. MASSETT, 'Nikhil N. CHAUDHAR, 'Paul M. THOMPSON, 'Andrei IRIMIA, 'Paul BOGDAN 'University of Southern California, Los Angeles, United States <i>Lessons Learned from a Deep Learning Architecture for Brain Age Prediction: Architectural Complexity and Opportunities</i>				
17:45	LIGHT DINNER						

Section 5 FIIR Room CE304 3rd Floor  
Thursday, 27th June 2024

Bucharest Time		Moderators: Prof. Vasile POP, Prof. Alexandru NEGRESCU	
16:00-16:15	Section 5 Room: CE304	ONLINE Authors: Affiliation: Title:	'Ioan CIOBĂNAȘU 'Școala Gimnazială Elena Rareș Botoșani, Botoșani, Romania <i>Colliniarity and concurrence in space</i>
16:15-16:30	Section 5 Room: CE304	ONLINE Authors: Affiliation: Title:	'Bogdan MAXIM 'Costache Negruzzi National College, Iasi, Romania <i>A different approach to the problems given at the mathematical olympiad</i>
16:30-16:45	Section 5 Room: CE304	ONLINE Authors: Affiliation: Title:	'Nicolae MUȘUROIA '"Vasile Goldiș" Western University of Arad, Baia Mare, Romania <i>The sum of the powers of the distances from a point to the vertices of an equilateral triangle</i>
16:45-17:00	Section 5 Room: CE304	ONLINE Authors: Affiliation: Title:	'Gabriela BOROICA, 'Gheorghe BOROICA 'National College Vasile Lucaciu, Baia Mare, Romania 'National College Gheorghe Șincai, Baia Mare, Romania <i>Arithmetic progressions and perfect powers</i>
17:00-17:15	Section 5 Room: CE304	ONLINE Authors: Affiliation: Title:	'Magnolia Anda TILCA, 'Florin BOJOR '"Vasile Goldiș" Western University of Arad, Baia Mare, Romania '"Gheorghe Șincai" National College, Baia Mare, Romania <i>Generalization of some recurrence relations for sequences</i>
17:15-17:30	Section 5 Room: CE304	ONLINE Author: Affiliation: Title:	'Natalia FĂRCAS 'National College Vasile Lucaciu, Baia Mare, Romania <i>Convex functions and application</i>
17:30-17:45	Section 5 Room: CE304	ONLINE Speaker: Affiliation: Title:	'Petru Marian BRAICA 'Colegiul Național Mihai Eminescu, Satu Mare, Romania <i>New Properties of Isogonal Cevians in a Triangle</i>



Universitatea Natională  
de Știință și Tehnologie  
POLITEHNICA BUCUREȘTI



**ISIM & ISWIM 2024** 3<sup>rd</sup> Edition - International Symposium & International Student Workshop  
26-28 June 2024, Bucharest, Romania

**on Interdisciplinary Mathematics in the CiTi areas**

**Day-3**

**Friday 28th June 2028**

**ONLINE**

**Acces link: ... follow email**

**Bucharest Time**

**Moderators**

**Prof. Simona-Mihaela BIBIC, Prof. Mihai REBENCIUC**

10:30-12:00	DEBATES: Trends in Mathematics Education, From High School to Higher Education
12:00-12:30	LUNCH