

Day-1
 Monday, 27th June 2022

9:00-9:30	REGISTRATION		WELCOME		LOCATION: SENATE ROOM, GROUND FLOOR, RECTORATE BUILDING
9:30-10:45	Opening Ceremony				
10:45-11:00	Break				
11:00-11:30	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Dorota Mozyrska - Bialystok University of Technology, Poland <i>Fractional-variable-order digital controller design tuned with the chaotic yellow saddle goatfish algorithm for the AVR system</i> Prof. Antonela Toma, Prof. Andrei Halanay		
11:30-12:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Antonio Liotta - Free University of Bozen-Bolzano, Italy <i>Data Analysis for the Intelligent Internet of Things</i> Prof. Antonela Toma, Prof. Andrei Halanay		
12:00-12:30	COFFEE BREAK				
12:30-13:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Maslina Darus - Universiti Kebangsaan Malaysia, Selangor, Malaysia <i>Generalized Differential Operators: Is constructing new operators worth it?</i> Prof. Antonela Toma, Prof. Andrei Halanay		
13:00-15:00	LUNCH BREAK				
	ISIM Moderators	Room 2.2, Library Building, UPB Ioana Corina Bogdan, Luciana Morogan, Octavian Postavaru, Emil Simion	ISIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purnichescu, Mirela Stanescu @	o
15:00-15:15	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	Radu Strugariu Gheorghe Asachi Technical University of Iasi, Iasi, RO <i>Directional derivatives and subdifferentials for set-valued maps with applications in set optimization</i>
15:15-15:30	Section 2 Room: 2.2	Live Authors: Affiliation: Title:	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	Ovidiu Bagdasar, Minsi Chen, Ivan Ivanov, Ioan Lucian Popa Department of Electronics, Computing and Mathematics, University of Derby, Derby, United Kingdom Department of Computer Science, University of Huddersfield, Huddersfield, United Kingdom Faculty of Economics and Business Administration, Sofia University "St. Kl.7 Ohridski", Sofia, Bulgaria 1 Decembrie 1918 University of Alba Iulia, Alba Iulia, Romania <i>On Horadam sequences with dense orbits and pseudo-random number generators</i>
15:30-15:45	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	Section 3 Room: 2.3	Online Authors: Affiliation: Title:	Lynda Mezghiche LAMAHIS Laboratory, University of 20 August 1955, Skikda, Algeria <i>New results on positive periodic solutions for a vector-transmitted disease model with iterative term</i>

15:45-16:00	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Antonela Toma, ¹ Flavius Dragoi, ¹ Octavian Postavaru ¹ University Politehnica of Bucharest, Bucharest, Ro <i>Enhancing the Accuracy of Solving Riccati Fractional Differential Equations</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Ioana Corina Bogdan, ² Takashi Tarumi, ³ Dan Popa ¹ Transilvania University of Brasov, Romania & Oregon State University, SUA & CITi, Romania, Brasov, Romania ² University of Texas Southwestern Medical Center, Dallas, United States ³ University of Louisville, Louisville, United States <i>A study of mathematical models used in the cerebral hemodynamic circulation</i>
16:00-16:15	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Stefan Razvan Anton, ¹ Octavian Postavaru, ¹ Antonela Toma ¹ Politehnica University of Bucharest, Bucharest, RO <i>Fractional data augmentation for image classification on tiny models.</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Alexandru Negrescu ¹ University Politehnica of Bucharest, Bucharest, RO <i>On the stability of a predator-prey system of difference equations</i>
16:15-16:30	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Elena Corina Cipu, ¹ Cosmin Danut Barbu ¹ University Politehnica of Bucharest, Bucharest, RO <i>Estimation methods for solutions of nonlinear equations</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Iulia Florentina Darie, ¹ Mirela Praisler, ¹ Steluta Gosay ¹ Universitatea "Dunarea de Jos" Galati, Galati, RO <i>Topological indices - application of graph theory in chemistry</i>
16:30-16:45	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Octavian Postavaru, ¹ Antonela Toma ¹ Center for Research and Training in Innovative Techniques of Applied Mathematics, Bucharest, Romania <i>$Sx \circ x^{\alpha}$ transformation and fractional numerical computations</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Monica Burlica ¹ Gh. Asachi Technical University of Iasi, Iasi, RO <i>On Directional Subregularity of Mappings</i>
16:45-17:00	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Mihaela Pricop-Jeckstadt ¹ University POLITEHNICA of Bucharest, RO <i>Minimax rates of convergence for statistical inverse problems based on discretely sampled functional data</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Adrian Sandovici, ¹ Marcel Roman ¹ Gh. Asachi Technical University of Iasi, Iasi, RO <i>ESSENTIALLY SELFADJOINT LINEAR RELATIONS IN HILBERT SPACES</i>
17:00-17:30	COFFEE BREAK					
	ISIM Moderators	Room 2.2, Library Building, UPB Ioana Corina Bogdan, Luciana Morogan, Octavian Postavaru, Emil Simion		ISWIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purnichescu, Mirela Stanescu, Ionitescu Sorin	
17:30-17:45	Section 1 Room: 2.2	Online Authors: Affiliation: Title:	¹ Mohammed A. Ghezzar, ¹ A Berhila, ¹ K. Benyattou, ⁴ D.Bouagada ¹ Abdelhamid Ibn Badis University Mostaganem, Mostaganem, Algeria <i>On The Positivity of 2D Fractional Linear Roesser Model Using The Conformable Derivative</i>	Section 1 Room: 2.3	Online Authors: Affiliation: Title:	¹ Trevor Berkemeyer ¹ Alabama A&M University, SUA <i>Highly dispersive optical solution perturbation with complex Ginzburg Landau Model by semi-inverse variation</i>
17:45-18:00	Section 2 Room: 2.2	Online Authors: Affiliation: Title:	¹ Salam Khan ¹ Alabama A&M University, Huntsville, United States <i>Approximation of the Generalized Poisson Distribution</i>	Section 1 Room: 2.3	Online Authors: Affiliation: Title:	¹ Rizwan Rizwan ¹ University of Buner, Mingora, Pakistan <i>Existence theory and Ulam's stabilities for switched coupled system of implicit impulsive fractional order Langevin equations</i>
18:00-18:15	Section 1 Room: 2.2	Online Authors: Affiliation: Title:	¹ Sumbel Begun, ¹ Akbar Zada, ¹ Shahid Saifullah, ² Ioan Lucian Popa ¹ University of Peshawar, Pakistan ² University of Alba Iulia, Alba Iulia, Romania <i>Dynamical behavior of random fractional integro-differential equation via Hilfer fractional derivative</i>	Section 2 Room: 2.3	Live Authors: Affiliation: Title:	¹ Iulia-Nela Anghelache, ¹ Simona Moldovanu, ¹ Luminita Moraru, ¹ University Dunarea de Jos of Galati, Galati, Romania <i>Mathematical spatial domain-based approach for quality assessment of multi-exposed breast images</i>

18:15-18:30	Section 2 Room: 2.2	Online Authors: Affiliation: Title:	¹ Paul Bogdan ¹ University of Southern California, USA <i>Theoretical Foundations for Lifelong Cyber-Physical Systems</i>	Section 1 Room: 2.3	Online Authors: Affiliation: Title:	¹ Saeed Alamry ¹ Taif University, TAIF, Saudi Arabia <i>Multilevel Interpolation of Periodic Functions with Gaussians</i>
18:30-18:45	Section 1 Room: 2.2	Online Authors: Affiliation: Title:	¹ Karim Amin ¹ Lebanese International University and UPB <i>Analysis of a DDE Model of Evolution in Chikungunya Incorporating the Action of the Immune System</i>	Section 2 Room: 2.3	Live Authors: Affiliation: Title:	¹ Andreea-Monica Dinca , ² Simona Moldovanu , ³ Luminita Moraru ¹ University Dunarea de Jos of Galati, Galati, RO <i>Comparison between the wavelet transforms used for parameters extraction in digital fingerprints</i>
18:45-19:00	Section 2 Room: 2.2	Online Authors: Affiliation: Title:	¹ Aliaa Burgan ¹ Zarqa University, Zarqa, Jordan <i>Some Applications on Physical Phenomena Using Laplace Residual Power Series Technique</i>	Section 1 Room: 2.3	Online Authors: Affiliation: Title:	¹ Chonjaroen Chairatsiripong , ² Anantachai Padcharoen , ³ Ovidiu Bagdasar , ¹ Tanakit Thianwan ¹ Department of Mathematics, School of Science, University of Phayao, Phayao, Thailand ² Department of Mathematics, Faculty of Science and Technology, Rambhai Barni Raj, Chanthaburi, Thailand ³ School of Computing and Mathematics, University of Derby, Derby, United Kingdom <i>Inertial viscosity fixed point algorithms for convex minimization, image restoration, and polynomiography</i>
	ISWIM	Room 2.2, Library Building, UPB Ioana Corina Bogdan, Luciana Morogan, Octavian Postavaru, Emil Simion		ISWIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purnichescu, Mirela Stanescu, Ionitescu Sorin	
19:00-19:15	Section 2 Room: 2.2	Online Authors: Affiliation: Title:	¹ Vladut-Alexandru Mielu , ¹ Simona Mihaela Bibic ¹ University POLITEHNICA of Bucharest, Bucharest, RO <i>Optimal job scheduling using bipartite graphs</i>	Section 2 Room: 2.3	Online Authors: Affiliation: Title:	¹ Abdelghafour Bazeniari , ² Moussa Ahmia ¹ University Center of Abdelhafid Boussof, Mila, Algeria ² Department of Mathematics, University of Mohamed Seddik Benyahia, Jijel, Algeri <i>A new generalization of r-Stirling numbers of the first kind</i>
19:15-19:30	Section 2 Room: 2.2	Online Authors: Affiliation: Title:	¹ Luminita Ioana Cotirla , ² Gangadharan Murugusundaramoorthy ¹ Technical University of Cluj-Napoca, Cluj-Napoca, Romania ² School of Advanced Sciences, Vellore Institute of Technology, Vellore, Vellore, India <i>New subclasses of analytic functions based</i>	Section 2 Room: 2.3	Online Authors: Affiliation: Title:	¹ Andreea Catalina Chitu , ¹ Simona Mihaela Bibic ¹ University POLITEHNICA of Bucharest, Bucharest, Romania <i>Minimax algorithm for optimal job assignment</i>
19:30-19:45	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Yaakov R. Tischler ¹ Bar Ilan University, Israel <i>Raman Spectroscopy in a Noisy World</i>			

Day-2
 Tuesday, 28th June 2022

9:00-9:30	REGISTRATION	LOCATION: SENATE ROOM, GROUND FLOOR, RECTORATE BUILDING					
9:30-10:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Dumitru Baleanu - Cankaya University, Ankara, Turkey <i>Fractional Generalised Operators: Theory and Applications</i> Prof. Antonela Toma, Prof. Dorota Mozyrska				
10:00-10:30	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Carlo Cattani - University of Tuscia, Viterbo, Italy <i>Haar Wavelet Fractional Derivative</i> Prof. Antonela Toma, Prof. Dorota Mozyrska				
10:30-11:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. David Naccache - École Normale Supérieure, Paris, France <i>On the security of Internet encryption standards</i> Prof. Antonela Toma, Prof. Dorota Mozyrska				
11:00-11:30	COFFEE BREAK						
11:30-12:00	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Anjan Biswas - Alabama A&M University, USA <i>Quasi-Stationary Optical Gaussons</i> Prof. Antonela Toma, Prof. Dorota Mozyrska				
12:00-12:30	Plenary Room: Senat	Plenary Lecture Speaker: Title: Chair:	Prof. Dr. Ravi P. Agarwal - Texas A&M University, Kingsville, USA <i>Existence and uniqueness results for a nOnlinear integral equation related to infectious disease</i> Prof. Antonela Toma, Prof. Dorota Mozyrska				
12:30-14:30	LUNCH BREAK						
	ISIM Moderators	Room 2.2, Library Building, UPB Ioana Corina Bogdan, Luciana Morogan, Octavian Postavaru, Emil Simion		ISIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purchinescu, Mirela Stanescu, Ionitescu Sorin		
14:30-14:45	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Emil Simion, ¹ Elena Corina Cipu ¹ University Politehnica of Bucharest, Bucharest, RO <i>Statistical Techniques used in cryptographic evaluation</i>		Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ IBTISSEM DAIRA ¹ Souk Ahras University, Algeria <i>Study on time scale Stability in neutral nOnlinear dynamic equations with unbounded delay</i>
14:45-15:00	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Abir Kicha ¹ University Mohamed Seddik Ben yahia-Jijel, Jijel, Algeria <i>Practical h-stability behavior of solutions of nOnlinear time-varying differential equations</i>		Section 2 Room: 2.3	Live Authors: Affiliation: Title:	¹ Matei Mihai Vasilescu, ¹ Luciana Morogan ¹ Military Technical Academy, Bucharest, RO <i>Steganography application for android</i>
15:00-15:15	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Daniela Rosu ¹ Gheorghe Asachi ¹ Technical University of Iasi, Iasi, Romania <i>Nonlinear multi-valued reaction-diffusion system with delay</i>		ISWIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purchinescu, Mirela Stanescu, Ionitescu Sorin	
				Section 2 Room: 2.3	Live Authors: Affiliation: Title:	¹ Elena Roberta Ion, ² Luciana Morogan ¹ Military Technical Academy "Ferdinand I", Bucharest, RO ² Military Technical Academy "Ferdinand I" & CiTi, Bucharest, RO <i>Automated products sorting system from e-shops</i>	

15:15-15:30	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Daniel Breaz, ¹ Shigyoshi Owa, ² Hatun Ozlem Guney ¹ „1 Decembrie 1918” University of Alba Iulia, Alba Iulia, Romania ² Atatürk University, Erzurum, Turkey <i>New Results for Analytic Functions</i>	Section 3 Room: 2.3	Live Authors: Affiliation: Title:	¹ Diana Laura Zanfir, ¹ Eduard Beu, ¹ Simona Mihaela Bibic ¹ University POLITEHNICA of Bucharest, Bucharest, RO <i>A hybrid algorithm based on the optimal path with applications in navigation systems</i>
15:30-15:45	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Adrian Sandovici, ¹ Marcel Roman ¹ Gheorghe Asachi Technical University of Iasi, Iași, RO <i>On the closedness and the selfadjointness of the sum of two linear relations</i>	Section 1 Room: 2.3	Live Authors: Affiliation: Title:	¹ Eduard Andrei Tanase, ¹ Gadiela-Daiana Uta, ¹ Mihai Rebenciu ¹ University Politehnica of Bucharest & CITI, Bucharest, RO <i>Control systems in intelligent lighting with integrated alarms systems</i>
15:45-16:00	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Marcel Roman, ¹ Adrian Sandovici ¹ „Gh. Asachi” Technical University of Iasi, Iași, RO <i>Adjoint to each other linear relations</i>	Section 1 Room: 2.3	Live Authors: Affiliation: Title:	¹ Eduard Andrei Tanase, ¹ Gadiela-Daiana Uta ¹ University Politehnica of Bucharest & CITI, Bucharest, RO <i>Battery usage optimization through embedded dynamic systems</i>
16:00-16:30	COFFEE BREAK					
	ISIM Moderators	Room 2.2, Library Building, UPB Ioana Corina Bogdan, Luciana Morogan, Octavian Postavaru, Emil Simion		ISWIM Moderators	Room 2.3, Library Building, UPB Corina Cipu, Mihaela Pricop, Raluca Purtan-Purnichescu, Mirela Stanescu, Ionitescu Sorin	
16:30-16:45	Section 1 Room: 2.2	Live Authors: Affiliation: Title:	¹ Mihai Rebenciu, ¹ Antonela Toma, ² Catalin Cretu, ¹ Semion Peleskov-Glavatckii ¹ University Politehnica of Bucharest & CITI, RO ² The Electroacoustic Music and Multimedia Center of the National University of Music Bucharest, Bucharest, Romania <i>Fractals in some metric spaces from the perspective of fractional calculus and metric digitalization</i>	Section 1 Room: 2.3	Live Authors: Affiliation: Title:	¹ Andra-Cristiana Maria-Fulașu, ¹ Semion Peleskov-Glavatckii, ¹ Antonela Toma, ¹ Mihai Rebenciu ¹ University Politehnica of Bucharest & CITI, Bucharest, RO <i>Methods of Multifractal Extrapolation in Case of Musical Pieces with Lyrics</i>
16:45-17:00	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Carmina Camelia Georgescu, ¹ Simona Mihaela Bibic ¹ University Politehnica of Bucharest & CITI, Bucuresti, Romania <i>Duffing-Van der Pol oscillator under fractional-order delayed feedback and external forces</i>	Section 3 Room: 2.3	Online Authors: Affiliation: Title:	¹ Nyah Coleman ¹ Alabama A&M University, Huntsville, United States <i>SOLITARY WAVES WITH TRIPLE DISPERSIVE EFFECTS WITH KdV EQUATION AND GARDENER'S EQUATION</i>
17:00-17:15	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Ana Maria Bordei, ² Andrei Halanay ¹ INCAS - National Institute for Aerospace Research "Elie Carafoli", Bucharest, Romania ² University Politehnica of Bucharest & CITI, RO <i>Stabilization for a longitudinal flight</i>	Section 1 Room: 2.3	Online Authors: Affiliation: Title:	¹ Kamel BENYETTOU, ¹ Djillali BOUAGADA, ¹ Mohammed Amine GHEZZAR ¹ Abdelhamid Ibn Badis University Mostaganem, Algeria <i>Influence of Discretization Step on Positivity of Conformable Fractional Linear Systems</i>
17:15-17:30	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Vasile Pop ¹ Technical University of Cluj-Napoca, Cluj-Napoca, Romania <i>New proofs of the theorem $\text{rank } f(M) + \text{rank } g(M) = \text{rank } (f, g)(M) + \text{rank } [f, g](M)$</i>	Section 3 Room: 2.3	Online Authors: Affiliation: Title:	¹ Rawan Abdullah, ¹ Andrei Halanay ¹ Politehnica University of Bucharest, RO <i>Stability Analysis in a New Model for Desensitization of Allergic Reactions Induced by Chemotherapy of Chronic Lymphocytic Leukemia</i>
17:30-17:45	Section 3 Room: 2.2	Live Authors: Affiliation: Title:	¹ Raluca Purnichescu-Purtan, ¹ Gabriel Tone ¹ University Politehnica of Bucharest, RO <i>An Original Version of the Sample Entropy Algorithm for Binary Sequences</i>	Section 2 Room: 2.3	Live Authors: Affiliation: Title:	¹ Andrei Cioaca, ¹ Luciana Morogan ¹ Academia Tehnică Militară Ferdinand I, București, Romania <i>AUTOMATIC IDENTIFICATION OF SIMILARITIES BETWEEN FUNCTIONS OF MALWARE FILES</i>
17:45-18:00	Section 3 Room: 2.2	Online Authors: Affiliation: Title:	¹ Dorin Andrica, ² Ovidiu Bagdasar, ¹ Babes-Bolyai University, Cluj Napoca, RO ² University of Derby, Derby, United Kingdom <i>Dynamical Systems Generated by Kasner Polygons with Complex Parameter</i>	Section 2 Room: 2.3	Live Speaker: University: Title:	¹ Marian Luca, ¹ Luciana Morogan ¹ Military Technical Academy "Ferdinand I", Bucharest, Reghin, Romania <i>Interlocutor profile detection system</i>

18:00-18:15	Section 3 Room: 2.2	Online Authors: Affiliation: Title:	¹ Larisa Elena Biris, ¹ Traian Ceausu, ² Ioan Lucian Popa ¹ Department of Mathematics, West University of Timisoara, Timisoara, Romania ² 1 Decembrie 1918` University of Alba Iulia, Alba Iulia, Romania <i>Lyapunov functions for Random One-sided Dynamical Systems</i>	Section 3 Room: 2.3	Online Authors: Affiliation: Title:	¹ Andreea Catalina Chitu, ¹ Simona Mihaela Bibic ¹ University Politehnica of Bucharest, Bucharest, Romania <i>A comparative study on the contractive operators</i>
18:15-18:30	Section 3 Room: 2.2	Online Authors: Affiliation: Title:	¹ Vasile Dragan, ² Ioan Lucian Popa ¹ Institute of Mathematics 'Simion Stoilow` of the Romanian Academy ² 1 Decembrie 1918` University of Alba Iulia, Alba Iulia, Romania <i>Stability analysis of impulsive stochastic linear differential equations</i>	Section 3 Room: 2.3	Online Authors: Affiliation: Title:	¹ Ariana Gaina, ¹ Mihail Megan, ¹ Timea Melinda Szemely Fulop ¹ West University of Timisoara, Timisoara, Romania <i>Uniform Stability Concepts for Discrete-Time Skew-Evolution Cocycles</i>
20:00	Conference Gala					



ISIM & ISWIM 2022 1st Edition - International Symposium & International Student Workshop
26-29 June 2022, Bucharest, Romania on Interdisciplinary Mathematics in the CiTi areas

Day-3
Wednesday, 29th June 2022

10:00-12:30	Room: CE 304, FIIR	Feedback, discussions and networking activities
12:30-13:30	LUNCH	