



Day-1 Thursday, 20th JUNE 2024

05:30-09:30									
ue:30-09:30	Room: left of Audit E	REGISTRATION							
		Opening Ceremony							
09-30-30-00	Opening Ceremony		ISEP President + Conference Ch	airs					
09:30-30:00									
	Room: Audit E	-	One surprise for all!						
		Plenary Lecture	nary Lecture The transition to synchronization of networked systems						
10:00-10:30	Plenary 1	Speaker: Chair:	Stefano Boccaletti						
Room: Audit E Zoom									
		Plenary Lecture	Glimpse of the Infinite – on the A Partial Differential Equations	pproximation of the Dynami	al Behavior for Delay and				
10:30-11:00	Plenary 2	Speaker:	Michael Delinitz						
	Room: Audit E	Chair: Zoom	Barbara Keyfitz						
11:00-11:10	COFFEE-BREAK 1 (Building H, A202)								
POSTER SESSION									
	Invited Lecture 1	Invited Lecture 2	Invited Lecture 3	Invited Lecture 4					
	Room: Sala de Atos	Room: Audit E	Room: H207	Room: H202					
	Identifying fractional order	Measuring and Evaluating BMI	A spatiotemporoal random walk	Within-host models					
	transfer functions from frequency responses	Dependent Drug Dynamic Response in Anesthetised	in Behavioral Epidemiology	unravelling the dynamics of dengue reinfections					
11:30-12:00	Speaker: Dwarte Valéria	Patients Speaker: Clara Jonescu	Sneaker: Alberto D'Onofrio	Sacaker: Maira Aquiar					
	Speaker: Duarte Valério Chair: Manuel Ortigueira	Speaker: Clara Ionescu Chair: Eva Dulf	Speaker: Alberto D'Onofrio Chair: Carla M.A. Pinto	Speaker: Maira Agular Chair: Ganna Rozhnova					
	Zoom	Zoom	Zoom	Zoom					
	SYMP 1	SYMP 10	SYMP 7	SYMP 5	SYMP 12	SYMP 13	SYMP 6	SYMP 11	
	Room: Audit E	Room: H202	Room: H208	Room: I201	Room: H207	Room: H209	outra de reunides	Room: Sala de Atos Chair: M. Zélia Rocha	
	Chair: Clara Ionescu	Chair: Maria Luz Gandarias	Chair: Shumaila David	Chair: Ivan Drasic	Chair: Alberto Pinto	Chair: Emanuel Guaraglia	Chair: M. Filomena Teodoro	Kenier Castilo	
	Zoom	Zoom	Zoom	Zoom	Zoom	Zoom	Zoom	Zoom	
		Mathematical modeling of high grade		Reflection of plane wave from			Operational Efficiency of Larzac	Brauer and Gersgorin	
12:00-12:15	Modelling nonlinear systems for drug administration via	gliomas: Investigating the impact of huncaic events on tumor crowth	Fractional operators, Topos and Grothendieck Schemes: Outline about a	impedance surface in a functionally graded trivilinin	Saving public goods	Some Results for Equilibrium	Operational Efficiency of Larzac Engines using Statistical Methods: An Approach to Risk Analysis and Risk Management SPEAKER: M. Flomena Teodoro	locations of zeros of pertur Chebyshev polynomials	
AC100-12-15	Koopmann Operator SPEAKER: Eva Dulf	dynamics through Lie symmetries SPEAKER: Maria Luz Gandarias Núñez	sheaf approach of the "arrow of time" SPEAKER: Alain Le Mehaute	impedance surface in a functionally graded triclinic thermoelastic solid half-space SPEAKER: Dr. Anand Kumar	Saving public goods SPEAKER: Alberto Pinto	Problems SPEAKER: Yen-Cherng Lin	Risk Management SPEAKER: M. Filomena	second kind by translati SPEAKER: Maria Zélia	
		Núñez		Yadav			Teodoro	Rocha	
								Our sector of the sector	
	A Trust Region Algorithm for Modeling BMI Related Risk in Anesthesia SPEAKER: Amani Rayone	A mathematical model for acute lumritroblastic leckernia development	What is a fractional derivative? - a	Generalized differentiation	The dynamics of vaccination strategies depending on the perceived vaccination- infection morbidity risks SPEAKER: José Martins	Paradoxical non-Gaussian heliovicy in frontinnal Lanlace	Quantifying Symmetry in Periodontal Disease: A Novel Measure for Clinical and	Generalized hypergeomet representation of 2-orthogr polynomial eigenfunctions of third-order differential oper	
12:15-12:30	Anesthesia SPEAKER: Amani Ravene	lymphoblastic leukernia development and a first phase of treatment SPEAKER: Ana Nikol Amer	constructive approach SPEAKER: Manuel D Ortigueira	meets generalized probabilities SPEAKER: Igor Podlubny	perceived vaccination- infection morbidity risks	matter with drift	Measure for Clinical and Epidemiological Applications SPEAKER: José L Pereira	hird-order differential oper SPEAKER: Taresa &	
	Ynineb	SPEAKEN: Ana Nino-Lopez			SPEAKER: José Martins	SPEAKER: Yingjie Liang	SPEAKER: José L Pereira	SPEAKER: Teresa A. Mesquita	
								Quadratic Decomposit	
							Portuguese Service Electricity Continuity Indicators: Quality	of the normalized derivatives of	
12:30-12:45							Continuity Indicators: Quality Service Evaluation SPEAKER: Marina A. P.	the Classical Orthogon	
							Andrade	Polynomials - revisite SPEAKER: Ângela Maco	
								-	
							Assessing the Symmetry of	From basic Fourier t basic Fourier-Bessel	
12:45-13:00							Assessing the Symmetry of Contralateral Periodontal Lesions Using Statistical Methods SPEAKER: José L Pereira	expansions SPEAKER: José Luís	
							SF SAKER: JONE L PERERA	SPEAKER: José Luis Cardoso	
13:00-14:30				LUNCH 1					
		Plenary Lecture	Nonlinear wave propagation in m	Plenary Lecture Nonlinear wave propagation in metamaterials enary 3 Speaker Walter Lardmanara					
14:30-15:00	Plenary 3	Plenary Lecture Speaker:	Walter Lacarbonara	etamaterials					
14:30-15:00		Speaker: Chair:	Nonlinear wave propagation in m Walter Lacarbonara Stefano Bocaletti	etamaterials					
14:30-15:00	Room: Audit E	Speaker: Chair: Zoom Plenary Lecture	Walter Lacarbonara Stefano Bocaletti Quantifying approximate symmet						
14:30-15:00		Speaker: Chair: Zoom Plenary Lecture Speaker:	Walter Lacarbonara Stefano Bocaletti Quantifying approximate symmet Adriana Dawes						
	Room: Audit E	Speaker: Chair: Zoom Plenary Lecture Speaker: Chair: Zoom	Walter Lacarbonara Stefano Bocoletti Quantifying approximate symmet Adriana Dawes Walter Lacarbonara	ries in biological systems					
15:00-15:30	Room: Audit E Plenary 4 Room: Audit E	Speaker: Chair: Zoom Plenary Lecture Speaker: Chair: Zoom Plenary Lecture	Walter Lacarbonara Stefano Bocaletti Quantifying approximate symmet Adriana Dawes Walter Locarbonara On the dynamics of vector fields v	ries in biological systems					
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15:00-15:30	Room: Audit E Plenary 4 Room: Audit E Plenary 5 Room: Audit E SYMP 2 Room: Audit E Char: Gana Razhnova Zoom	Speaker: Chair: Zoom Speaker: Chair: Zoom Plenary Lecture Speaker: Chair: Zoom SyMP 5 Room: H202	Walter Lacarbonara Stefano Bocoletti Quantifying soprosilmate symmet Adriana Dawes Weiter Locarbonara On the dynamics of vector fields w Michael Delinitz CC SYMP 7 Room: H208	ries in biological systems with univalued solutions DFFEE-BREAK 2 (Buil SYMP 1 Room: 1201 Char: Eva Duf Zoom	SYMP 12 Room: H207	Room: H209	Room: Sala de reuniões Chair: Marina Andrade Zoom	Room: Sala de Atos Chair: José Luis Cardo Zoom	
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11:00-11:10 11:00-11:10 11:00-11:10 11:00-11:10 11:00-11:10 11:00-11:10 11:00-11:10	Room: Audit E Plenary 4 Room: Audit E Plenary 5 Room: Audit E Plenary 5 Room: Audit E Room: Audit E Symp 2 Room: Audit E Room: Room Room Room Room Room Room Room Room	Speaker: Choir: Zoom Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Choir: Ch	Watter Landonara Sardon Bacatter Sardon Bacatter Sardon Bacatter Watter Landonara Katana Daves Watter Landonara Recoming Landonara Control Parameter Sardonara Char Dumbro Aleana Char Dumbro Aleana Char Dumbro Aleana Recoming Landonara Bacatter Landonara Bacatt	ries in Biological systems with univalued solutions SYMP 61 Record: 1201 Crait Field Control Control Control Control Control Control Services Technical Services Services Technical Services Services Technical Services Services Technical Services Control Control Control Control Control Control Control Control Control Services Technical Services Services Technical Services Control Control Control Control Control Control Control Control Control Services Technical Services Control Control Control Control Control Control Control Control Control Services Technical Services Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Services Technical Services Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Services Technical Services Control Control Control Control Control Control Control Control Control C	SYMP 12 Room: H207 Chair: Alexto Proto Chair: Alexto Proto Soon Bi-cooperative Cannes: A Bi- dense Protocial Biolectical Protocial Statical and Static Bi-Packett: Natural Casephilic Materia Listoficial Bi-Packett: Natural Casephilic Bi-Packett: Natural Casephilic Bi-Packettt: Natural Casephilic Bi-Packettt: N	Room: H209 Chair: Emanuel Guariglis Zoom Discrete-Time Octorion Orbital Orpamics in a Reament Friend Frame with Symmetries SPEAKER: Bened Binder Essential spectra of weighted enformorphisms of uniform SPEAKER: Arkady Kitover	Reen: Earl de repuedes Cara: Marca Adropole Zoom Failares Editación der Per Pailares Editación der Ver Pailares Editación de la SPEARER: Antina L Correla SPEARER: Antina L Correla Bregata BREARER: A Failena Bregata BREARER: A Failena Bregata BREARER: Tarsa A Oliveira	Reom: Bala de Aon Chair-José Luis Cardo Chair-José Luis Cardo Son Baldion of systems of tier de Bellions Tier mitter PERAER: Jose Ao. Na Peraert An exactly soluble Malforo-Luser method Nalforo-Luser method Nalforo-Luser method Sef Adris, Costamo Gondilo Nuñez Barnís compution tier for desaid discrete orthogonal polyromial SPEARER: Assandre Su	



INTERNATIONAL CONFERENCE Mathematical Analysis and Applications in Science and Engineering

Day-2 Friday, 21st JUNE 2024

09:00-09:30	Room: next to Audit E	REGISTRATION						
		Plenary Lecture	General stochastic differential equation models for population growth and harvesting in random environments: Sustainability, optimization and i					
	Plenary 6	General stochastic differential equation models for population growth and harvesting in random environments: Sustainability, optimization and impact of Allee effects						
09:30-10:00	Fieldly 0	Speaker:	Carlos Braumann					
	Room: Audit E	Chair:	Juan Carlos Cortés					
		Zoom Plenary Lecture	Lecture Estimation of time to a tipping point					
10:00-10:30	Plenary 7	Speaker:	ker: Susanne Ditlevesen					
	Room: Audit E	Chair: Zoom	Ganna Rozhnova					
	Plenary 8	Plenary Lecture		rinciple for analyzing and designing	g fast and flexible decision-r	naking in embodied agents		
10:30-11:00	Fieldly o	Speaker: Chair:	Alessio Franci Ana Paula Dias					
	Room: Audit E	Zoom						
11:00-11:30	SYMP 2	SYMP 14	SYMP 7	BREAK 3 (Building H, A20 SYMP 9	ISYMP 5	SYMP 13		
	Room: Audit E	Room: H202	Room: H207	Room: I201	Room: Sala de Atos	Room: Sala de reuniões		
	Chair: Ganna Rozhnova	Chair: Hermenegildo Oliveira	Chair: Dia Zeidan	Chair: Rafael Villanueva	Chair: Sandra Pinelas	Chair: Emanuel Guariglia Zoom		
	Zoom	Zoom	Zoom	Zoom	Zoom	20011		
11:30-11:45	Mathematical modeling of IL-6 driven T lymphocyte cross-talk in the disease course and treatment of rheumatoid arthritis	Regularity Results for Anisotropic PDEs	Controllability of fractional dynamical systems with (k, ψ)- Hilfer fractional derivative	About the weak attractor for the stochastic 3D-Navier-Stokes system	Thermal nonequilibrium double diffusive convection in a fluid saturated anisotropic porous layer with soret effect	Zero-free regions of \$\bm{zeta^{(\alpha)}(s)}\$		
	artnnus SPEAKER: Zviad Kalichava	SPEAKER: Eurica Henriques	SPEAKER: Javid Ali	SPEAKER: José Valero	SPEAKER: Anas Abdallah Altawalibeh	SPEAKER: Emanuel Guariglia		
11:45-12:00	Population dynamics in the context of	Logarithmic double phase problems	Exact solution of fractional order	Weak mean random attractors for non- local random and stochastic reaction-	Continua of equilibrium states in ensembles with	Multifractals in Dynamical systems (On the Doubly non-monotonic		
11:45-12:00	SPEAKER: Nicolae Herisanu	problems SPEAKER: Rakesh Arora	Chagas virus model SPEAKER: Dia Zeidan	diffusion equations SPEAKER: Ruben Caballero Toro	global coupling SPEAKER: Michael A Zaks	perturbed map) SPEAKER: Ibrahim Alsendid		
12:00-12:15	Optimizing immunotherapies for improved cancer treatment	Existence and global regularity properties for anisotropic parabolic equations with variable	Exact solutions of time-fractional (2+1) Chemotaxis model using Lie	Dynamics of the classical chemostat model with real random kinetics	Linear Statistical Inverse Problems for Hilbert Space Processes in Hilbert Scales	Towards a nonlinear generalization of spectral decomposition		
	SPEAKER: Anne Talkington	growth SPEAKER: Sergey Shmarev	symmetry SPEAKER: B. Bira	SPEAKER: Javier López-de-la-Cruz	SPEAKER: Mihaela Pricop- Jeckstatd	SPEAKER: Jochen Merker		
	Mathematical modeling and				Solving Abel type differential	Strong convergence of inertial		
12:15-12:30	numerical analysis of "Car abandonment" during tsunami evacuation SPEAKER: Sayu Arai	Nonstandard Stummel Spaces and Applications SPEAKER: Alexandre Almeida	Extension of a fractional model identification method for fractional dual-pole plus dead-time models SPEAKER: Juan J. Gude	Application of Random Differential Equations in Compartmental Models for Oral Drug Administration SPEAKER: Cristina L Perez	equations using multilayer perceptron SPEAKER: Tolga Recep Uçar	shrinking projection method for split best proximity point problem and mixed equilibrium problem SPEAKER: Mohd Furkan		
12:30-12:45		CD-FEM solutions of fourth-order nonlinear models for the confinement of fluid flows SPEAKER: Nuno D. Lopes						
12:45-14:30			1	LUNCH 2				
14:30-15:00		Plenary Lecture	A Critical Review of Fractional	Operators With Nonsingular Kerne	ls			
	Plenary 9	Speaker: Chair:	Kai Diethelm Juan Carlos Cortés					
	Room: Audit E	Zoom	Juan Carlos Cortes					
	Plenary 10	Plenary Lecture	Network classification using O	DE-equivalence				
15:00-15:30	rienary to	Speaker: Chair:	Ana Paula Dias Alessio Franci					
	Room: Audit E	Zoom	Included I and The Include	Involted I and				
	Invited Lecture 5	Invited Lecture 6	Invited Lecture 7	Invited Lecture 8				
	Room: H202	Room: Sala de reuniões	Room: H207	Room: Sala de Atos				
	Thermodynamic Insights into Network Dynamics: Statistical Mechanics Perspective	Motion and concentration dynamics of small particles and plankton in fluid flows	Approximating the dynamics of a stochastic PDE model by using colored noise	ТВА				
15:30-16:00	Speaker: Dimitri Volchenkov	Speaker: Lev Ostrovsky	Speaker: Tomás Caraballo	Speaker: Valentina Balas				
	Chair: Juan Carlos Cortés Zoom	Chair: Walter Lacarnobara Zoom	Chair: Rafael Villanueva Zoom	Chair: Dumitru Baleanu Zoom				
16:00-16:30				BREAK 4 (Building H, A20	02)			
	SYMP 2	SYMP 7	SYMP 10	SYMP 9	SYMP 5		SYMP 6	
	Room: Audit E Chair: Marc Jornet	Room: H210 Chair: Tatiana Odzijewicz	Room: H207 Chair: Stephan Anco	Room: H202 Chair: Clara Burgos	Room:1201 Chair: Sandra Pinelas	Room: 208 Chair: Inês Domingues	Room: Sala de Atos Chair: M Filomena Teodoro	
		Zoom	Zoom	Zoom	Zoom	Zoom	Zoom	
16:30-16:45	Mathematical modeling of crime data with stochastic differential equations SPEAKER: Julia Calatayud	New Refinements of Hermite- Hadamard Inequalities for Left and Right Quantum Integrals SPEAKER: Hüseyin Budak	Exact solutions and conservation laws of a one-dimensional PDE model for a blood vessel SPEAKER: Stephen Anco	A probabilistic approach to determine the best chemotherapy strategy to delay breast turnor relapse SPEAKER: Clara Burgos	TBA SPEAKER: Nedjem Eddine Ramdan	Nonlinear Neural Dynamics of Language Processing: A Recurrence Quantification Analysis of EEG in Dyslexia SPEAKER: Ignacio Rodriguez- Rodriguez	Relative risk of COVID-19 contagion in Mozambique SPEAKER: Teresa A. Oliveira	
16:45-17:00	Leveraging Physics-Informed Neural Networks for Immunotherapy Models in Cancer SPEAKER: José A. Rodrigues	Memory-dependent multiobjective variational calculus SPEAKER: Tatiana Odzljewicz	Approximation of fuzzy numbers and fuzzy-valued functions SPEAKER: Maria Isabel Berenguer	Probabilistic analysis of a simply supported beam with random parameters SPEAKER: Elena López Navarro	Mathematical model optimization to address pallet loading issues in the automotive industry SPEAKER: Rita de Cássia	Generation of Virtual Children for testing a Recommendation System for Interventions with Children with Dyslexia SPEAKER: José Ignacio JI Mateo Trujilio	A stochastic analysis of the hepatitis B virus model SPEAKER: Abdallah Alsammani	

17:15-17:30	Convolutional Neural Networks for Automated Classification of Childhood Leukemia Cells: A Machine Learning Method for Differentiating Between Normal and Abnormal Cells in Microscopic Images SPEAKER: Oluwaseun Olumide Okundalaye	Weighted Newton-Type Inequalities via Riemann-Liouville Fractional Integrals SPEAKER: Hüseyin Budak	The effect of migration in predator-prey differeibal systems SPEAKER: Erika Diz-Pita	A PSO-Based Calibration Method to Estimate Random Model Parameters Distribution Dynamics SPEAKER: Carlos Andreu-Vilarrolg	Queue Management Analysis in Single-Server Manufacturing System with Working Breakdowns, Vacations, and Retrial Policy SPEAKER: Shalini Sharma	Performance Evaluation Metrics for Automatic Liver Segmentation on Medical Imaging Scans SPEAKER: Stephanle Batista	Insights into the European Innovation Scoreboard: Intelligent Features Selection with R SPEAKER: Aldina I. Correia
17:30-17:45	Mathematical Modeling of Adaptive Collective Defense: crisis response in social-insect colonies SPEAKER: Yun Kang	A Novel Crossover Dynamics of Monkeypox Disease Mathematical Model Using Fractional Differential Equations Based on the -Caputo Derivative: Numerical Treatments SPEAKER: N.H. Sweilam	An artificial neural network approach for the complex dynamics of a SIVR epident model with saturated incidence rate and treatment SPEAKER: Muhammad Farhan	A Magnus-based integrator for multidimensional parametric semi linear stochastic oscillators SPEAKER: Hugo A de la Cruz	Inverse problem for the pseudoparabolic equation with p-Laplacian and damping term SPEAKER: Aidos Shakir	Disentangling High-Order Cardiorespiratory Interactions in Postural Stress SPEAKER: Hélder A Pinto	Potential impact of a demonstration on COVID- 19 contagion: an application SPEAKER: Conceição D Leal
17:45-18:00	An Optimal Control Problem for a Predator-Prey Model with Strong and Weak Preys SPEAKER: Paulo Jorge Rebelo	Theory of Hermite and Laguerre Bessel function from the umbral point of view SPEAKER: Umme Zainab	Relation between zona pellucida shear stress and different sperm distribution in the context of the contact stress theory SPEAKER: Andjelka N Hedrih		Optimal Control of a Class of Stochastic 3rd Grade Fluids Equations SPEAKER: Raya Nouira		Cotinine : The Impact of Smoking Habits on Periodontal Disease SPEAKER: João Onofre

INTERNATIONAL CONFERENCE Mathematical Analysis and Applications in Science and Engineering

UNE 20-22, 2024 · ISEP · PORTO, PORTUGAL Day-3

Saturday, 22nd JUNE 2024

ISEP D

	Invited Lecture 9	Invited Lecture 10	Invited Lecture 11	Invited Lecture 12		
09:30-10:00						
	Room: Sala de reuniões	Room: Audit E	Room: Sala de Atos	Room: H202		
			Mathematical modeling of	Investigating the dynamical		
	Basic Problems in the Theory	Targeted control of COVID-19	viscoelastic auxetic materials	behavior on systems with a		
	of Pseudo-Differential	post-mass vaccination	via fractional calculus	positive maximal Lyapunov		
	Equations		approach	Characteristic Exponent near zero		
	Speaker: Vladimir Vasyliev	Speaker: Ganna Rozhnova	Speaker: Marina Shitikova	Speaker: Jamal-Odysseas Maaita		
	Chair: Helena Reis	Chair: Carla M.A. Pinto	Chair: Ioan-Lucian Popa	Chair: Alessio Franci		
	Zoom	Zoom	Zoom	Zoom		
	SYMP 2	SYMP 7	SYMP 5	SYMP 9	SYMP 14	
	Room: Audit E	Room: Sala de reuniões	Room: H207	Room: H202	Room: Sala de Atos	
	Chair: Urszula Skwara	Chair: Silvério Simões Rosa	Chair: Sandra Pinelas	Chair: Ana Navarro Quiles	Chair: Sergey Shmarev	
	Zoom	Zoom	Zoom	Zoom	Zoom	
10:00-10:15	Two rheological models and two rheological dynamical systems of fractional type SPEAKER: Katica R. Hedrih	On the construction of fractional operators with normalization SPEAKER: Marc Jornet	The smoothness of orbital measures on noncompact symmetric spaces SPEAKER: Sanjiv Kumar Gupta	SGD method for the simultaneous controllability of a parameter-dependent finite dimensional linear model SPEAKER: Ana Navarro Quiles	Energy Efficiency of Machine Learning Frameworks in Cloud Computing: TensorFlow vs. PyTorch SPEAKER: Sergio Ivan Aquino Britez	
10:15-10:30	Understanding the Contagion Effect of the Russia-Ukraine Conflict on Brazilian Diesel Market SPEAKER: Claudio Marcio Cassela Inacio Junior	Modelling optimal control of the piecewise-fractional Ebola model SPEAKER: Silvério Simões Rosa	A second kind formulation for algebraic contrained differential equations: The rare time when reckless differentiation makes things better SPEAKER: Vicente J Gomez Herrera	Uncertainty study in a 0-D SCR Model for NOx Emissions SPEAKER: Marcos Llamazares Lopez	Choosing among different discrete approximations of a continuous random variable SPEAKER: Alessandro Barbiero	
10:30-10:45	Mathematical modelling of vector-borne diseases SPEAKER: Urszula Skwara	A New Class of Fractional Problems of the Calculus of Variations SPEAKER: Om Kalthoum Wanassi	Numerical study of a partial differential equation with nonstandard growth conditions SPEAKER: Willian S. Panni	Modeling social media growth using an extension of the random classical logistic equation SPEAKER: Sorina Madalina Sferle	On the 4-D Nilpotent Feed- forward Network Dynamical Systems SPEAKER: Fahimeh Mokhtari	
10:45-11:00		A Novel Crossover Dynamics of Monkeypox Disease Mathematical Model Using Fractional DiBrential Equations Based on the -Caputo Derivative: Numerical Treatments SPEAKER: Necati Ozdemir	A shear flow problem for compressible micropolar real gas SPEAKER: Ivan Drazic	Application of geometric methods to the calibration of a SIRS model for the RSV in infants SPEAKER: Nikita Kopylov	On a class of \$p\$-Kirchhoff equations with nonlocal logarithmic nonlinearity SPEAKER: Ugur Sert	
11:00-11:30			REAK 5 (Building H, ro			
	SYMP 9	SYMP 8	SYMP 3	SYMP 5	SYMP 7	
	Room: Audit E	Room: I201	Room: H207	Room: Sala de Atos	Room: Sala de reuniões	
	Chair: Clara Burgos Simón	Chair: Jorge Mendonça	Chair: Carlos Rodrigues	Chair: Ioan-Lucian Popa	Chair: Brajesh K Jha	
11:30-11:45	Zoom Probabilistic Analysis of Random Differential Equations with Nonlinearities via the Equivalent Linearization Technique SPEAKER: Joaquin Valencia Sullca	Zoom Computer Algebra System integrated in Computer-assisted assessment with Stack in Fourier Series experience SPEAKER: Jorge Pires Mendonça	Zoom Statistical models, variational methods and engineering problems involved in the control of pharmaceutical pollutants SPEAKER: Irina C. Meghea	The Linear Quadratic Optimal Control Problem for Stochastic Systems Controlled by Impulses SPEAKER: Ioan-Lucian Popa	Zoom New Perspectives on Integral Inequalities by Means of Generalized Fractional Integrals SPEAKER: Hasan Kara	
11:45-12:00	Length-Biased-Weibull Probability Distribution, Characteristics and Application in Wind Energy SPEAKER: Brahim Taoussi	Implementation of Moodle Stack Questions on Numerical Methods Course in an Engineering Degree SPEAKER: António Varejão Sousa	Cross-correlation of lower limb sagittal joint angular kinematics for coordination assessment SPEAKER: Carlos Rodrigues	Regulatory networks with varying interactions SPEAKER: Felix Sadyrbaev	Dissecting fractional order calcium dynamics with Amyloid beta and Orai channel SPEAKER: Brajesh K Jha	

12:00-12:15		Detection of anomalies/outliers in time series SPEAKER: Vitor CM Cardoso	Improving Acute Lymphoblastic Leukemia Relapse Prediction with Machine Learning Biomarkers SPEAKER: Rocio Picón González	Oscillation of second order nonlinear fractional matrix differential equations with forcing term SPEAKER: Sandra Pinelas	New integral inequalities via Hardy-Hilbert and Milne inequalities SPEAKER: Mehmet Sabır Bingöl			
12:15-12:30				Removable singularities of distributional solutions to the steady Navier-Stokes equations SPEAKER: Alfonsina Tartaglione	Qualitative analysis of a fractional-order for a within- host infection dynamics with adaptive immunity using Caputo derivative SPEAKER: Marya Sadki			
12:30:14:00	LUNCH 3							
14:00-14:30	Invited Lecture 13 Title Modeling Hepatitis Virus Infection in the Liver Speaker: Ruy Ribeiro Chair: Ganna Rozhnova Com							
14:30-15:00	Invited Lecture 14 Title Weak and Not so weak Mean Field Coupling regime. Invariant Measures, Convergence to Equilibrium, Linear Response Speaker: Stefano Galatolo Chair: Alessio Franci Zoom Stefano Galatolo							
15:15-16:30	CLOSING CEREMONY, SPECIAL TRIBUTE TO PROFESSOR TENREIRO MACHADO							
18:00-23:00	Room: Audit Magno Room: A202	Zoom Farewell Port SOCIAL I	Musical moment with TAISER	DINNER				
	Porto Palácio da Bolsa		with live mus	sical moment by Ensemble +	surprises			

NOTE: <u>All times in GMT+1</u> <u>local time</u>



POSTER SESSION

Room: A202

Boosting Math Literacy Through Digital Escape Rooms in HEI AUTHORS: Carla M.A. Pinto, Lurdes Babo, Jorge Mendonça, Deolinda Rasteiro, Cristina Caridade

Integrating Problem-Based Learning in the Math Classroom AUTHORS: Lurdes Babo, Carla M.A. Pinto, Jorge Mendonça

The Impact of School Bands on Children's Happiness and Motivation in Primary School **AUTHORS:** Jorge Mendonça, Carla M.A. Pinto, Lurdes Babo, Mário Pinto

Numerical simulations of compressible micropolar fluid flow between moving parallel plates **AUTHOR:** Nelida Crnjaric

Scoring system for predicting student failure in maths courses AUTHOR: Ivan Drazic