

NOTE:
All times in GMT+1
local time.



Day-1
Thursday, 20th JUNE 2024

08:30-09:30		REGISTRATION					
Room: left of Audit E							
09:30-10:00		Opening Ceremony ISEP President + Conference Chairs <i>One surprise for all!</i>					
Room: Audit E							
10:00-10:30		Plenary 1 Plenary Lecture Speaker: Stefano Boccalati Chair: Merry Golubiaty Zoom					
Room: Audit E							
10:30-11:00		Plenary 2 Plenary Lecture Speaker: Michael Delitz Chair: Barbara Keyfitz Zoom					
Room: Audit E							
11:00-11:30 COFFEE-BREAK 1 (Building H, A202)							
POSTER SESSION							
Invited Lecture 1		Invited Lecture 2		Invited Lecture 3		Invited Lecture 4	
Room: Sala de Atoas		Room: Audit E		Room: H207		Room: H202	
11:30-12:00		11:30-12:00		11:30-12:00		11:30-12:00	
Identifying fractional order transfer functions from frequency responses Speaker: Duarte Vafrio Chair: Manuel O'Driscoll Zoom		Measuring and Evaluating BMI Response in Anesthetized Patients Speaker: Clara Ionescu Chair: Eva Duff Zoom		A spatiotemporal random walk in Behavioral Epidemiology Speaker: Alberto D'Onofrio Chair: Carla M.A. Pinto Zoom		Within-host models unravelling the dynamics of dengue reinfections Speaker: Maira Aguiar Chair: Gonalo Rothhoepf Zoom	
SYMP 1		SYMP 10		SYMP 5		SYMP 12	
Room: Audit E		Room: H202		Room: H208		Room: H207	
Chair: Clara Ionescu		Chair: Maria Luz Gandarias		Chair: Shumala David		Chair: Alberto Pinto	
Zoom		Zoom		Zoom		Zoom	
12:00-12:15		12:00-12:15		12:00-12:15		12:00-12:15	
Modeling nonlinear systems for drug administration via Koopman Operator SPEAKER: Eva Duff		Mathematical modeling of high grade gliomas: Investigating the impact of hypoxic areas on tumor growth dynamics through Liu symmetries SPEAKER: Maria Luz Gandarias Nolas		Fractional operators, Topos and Categorical Semantics: Centre about a sheaf approach of the 'array of time' SPEAKER: Asim Le Hebaie		Reflection of plane waves from impedance surface in a functionally graded medium: Demolition, solid half-space SPEAKER: Dr. Anand Kumar Yadav	
12:15-12:30		12:15-12:30		12:15-12:30		12:15-12:30	
A Trust Region Algorithm for Modeling BMI Related Risk Assessment SPEAKER: Amal Rayane Vithal		A mathematical model for acute lymphoblastic leukemia development and a first phase of treatment SPEAKER: Ana Nitto-Lopez		What is a fractional derivative? - a constructive approach SPEAKER: Manuel D O'Driscoll		Generalized differentiation meets generalized probabilities SPEAKER: Igor Podlubny	
12:30-12:45		12:30-12:45		12:30-12:45		12:30-12:45	
The dynamics of vaccination strategies depending on the perceived vaccination rate SPEAKER: José Martins		Quantifying Symmetry in Periodical Disease: A Novel Measure for Clinical and Epidemiological Applications SPEAKER: José L Pereira		Parabolic non-Gaussian behavior in fractional Laplace motion with drift SPEAKER: Yinglin Liang		Operational Efficiency of Logistic Engines using Statistical Methods An Approach to Risk Analysis and Risk Management SPEAKER: Maria Zelia da Rocha	
12:45-13:00		12:45-13:00		12:45-13:00		12:45-13:00	
Portuguese Service Electricity Continuity Indicators: Quality Service Evaluation SPEAKER: Maria A. P. Andrade		Quadratic Decomposition of the normalized derivatives of the Classical Orthogonal Polynomials - revisited SPEAKER: Ângela Macedo		Assessing the Symmetry of Convolutional Pericortical Lesions Using Statistical Methods SPEAKER: José L Pereira		From basic Fourier to basic Fourier-Bessel expansions SPEAKER: José Luis Cardoso	
13:00-14:00 LUNCH 1							
14:00-14:30		Plenary 3 Plenary Lecture Speaker: Walter Lacarbonara Chair: Stefano Boccalati Zoom					
Room: Audit E							
14:30-15:00		Plenary 4 Plenary Lecture Speaker: Adriana Dawes Chair: Walter Lacarbonara Zoom					
Room: Audit E							
15:00-16:00		Plenary 5 Plenary Lecture Speaker: Helena Reis Chair: Michael Delitz Zoom					
Room: Audit E							
16:00-16:30 COFFEE-BREAK 2 (Building H, A202)							
SYMP 2		SYMP 5		SYMP 7		SYMP 1	
Room: Audit E		Room: H202		Room: H208		Room: I201	
Chair: Gama Hristova		Chair: Ivan Dracic		Chair: Dumitru Baleanu		Chair: Eva Duff	
Zoom		Zoom		Zoom		Zoom	
16:30-16:45		16:30-16:45		16:30-16:45		16:30-16:45	
Exponentially Varied Diffusivity with Compex Dynamics for Modeling Tumor Cells Proliferation SPEAKER: José Luis Diaz		New approach to a Gairland-type mesh SPEAKER: Goran Radovic		Data-driven and Deep Learning of Fractional Difference Equations SPEAKER: Guo-Chang Wu		Likelihood Measures for Classifying Frequency Response Functions from Posture Control Experiments SPEAKER: Wenxin Liqi	
16:45-17:00		16:45-17:00		16:45-17:00		16:45-17:00	
A Marica formulation of the stochastic population dynamics of resistance allele equations SPEAKER: Hidenari Yoshida		Basic concepts on Ulam stability for boundary value problems for differential equations SPEAKER: Snezana Hristova		Fractional Transformations of Distributions with Applications SPEAKER: Ahmed I Zayed		From Einstein on the Beach to Colatz on the Web SPEAKER: Miguel Casquillo	
17:00-17:15		17:00-17:15		17:00-17:15		17:00-17:15	
Mathematical Modeling of Adaptive Collective Behavior: stress response in social insect colonies SPEAKER: Yun Kang		Development and Validation of Large Eddy Simulation with Correlation: a novel class of turbulence models SPEAKER: Alexander Labovsky		Study of non-smooth solutions for fourth order multi-term fractional reaction-diffusion equation SPEAKER: Reshika Chawla		New Asymmetry Measures of a Poisson Plot for Heart Rate Assessment SPEAKER: Mijat Parnovic	
17:15-17:30		17:15-17:30		17:15-17:30		17:15-17:30	
Lyapunov Control Strategy for a Phlegmatic disease spread SPEAKER: Chahib Jerry		Control of Multistability in a Parametrically Coupled Electromechanical Oscillator System SPEAKER: Godwin Sani		Gradient Controllability of Time-Fractional Systems involving Psi-Caputo Fractional Derivative SPEAKER: Amara TAJANI		Maximum likelihood estimation of the Inverse Normal distribution SPEAKER: Rui Gonçalves	
17:30-17:45		17:30-17:45		17:30-17:45		17:30-17:45	
Localized Control Strategy for a Phlegmatic disease spread SPEAKER: Chahib Jerry		On a Certain Singular Caputo-Fractional Problem With Two Boundary Integral Conditions SPEAKER: Aboubaker El-Saidi BOUZIANE		Langrangian Descriptors and their Role in a new uncertainty quantification method SPEAKER: Marina Aguiar		Regularity of Solutions in B_{∞}^{∞} Spaces for a Multidimensional incompressible Flow under the Bi-viscosity Turbulence Model SPEAKER: José Luis Diaz	
						Strategic Integration of Risk Analysis in Robotics: exploring differential equations based on the Lagrange Tau method SPEAKER: B. Flaminia Teodoro	
						Solution of systems of integro-differential equations based on the Lagrange Tau method SPEAKER: José A.O. Matos	
						An exactly solvable Schrödinger equation via the Mellin-Barnes method: the Rosen-Morse potential. Applications to Energy $^{2D+1}$ field theory SPEAKER: Guillermo González Núñez	
						Strain's comparison theorem for classical discrete orthopedic structures SPEAKER: Alexandre Duarte	
						Explore forms of disaggregate COVID-19 data: an example SPEAKER: Constança D Lail	
						Two-sided Pólya frequency sequence and certain Markov processes SPEAKER: Kanter Castillo	

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Day-2
Friday, 21st JUNE 2024

09:00-09:30		REGISTRATION					
09:30-10:00	Plenary 6 Room: Audit E	Plenary Lecture <i>Speaker:</i> <i>Chair:</i> Zoom	General stochastic differential equation models for population growth and harvesting in random environments: Sustainability, optimization and impact of Allee effects <i>Speaker:</i> Carlos Braumann <i>Chair:</i> Juan Carlos Cortés				
10:00-10:30	Plenary 7 Room: Audit E	Plenary Lecture <i>Speaker:</i> <i>Chair:</i> Zoom	Estimation of time to a tipping point <i>Speaker:</i> Susanne Ditlevesen <i>Chair:</i> Ganna Rozhnova				
10:30-11:00	Plenary 8 Room: Audit E	Plenary Lecture <i>Speaker:</i> <i>Chair:</i> Zoom	Excitable decision-making: a principle for analyzing and designing fast and flexible decision-making in embodied agents <i>Speaker:</i> Alessio Franci <i>Chair:</i> Ana Paula Dias				
11:00-11:30 COFFEE-BREAK 3 (Building H, A202)							
SYMP 2		SYMP 14	SYMP 7	SYMP 9	SYMP 5	SYMP 13	
Room: Audit E		Room: H202	Room: H207	Room: I201	Room: Sala de Atos	Room: Sala de reuniões	
<i>Chair:</i> Ganna Rozhnova		<i>Chair:</i> Hermenegildo Oliveira	<i>Chair:</i> Dia Zeidan	<i>Chair:</i> Rafael Villanueva	<i>Chair:</i> Sandra Pinelas	<i>Chair:</i> Emanuel Guariglia	
Zoom		Zoom	Zoom	Zoom	Zoom	Zoom	
11:30-11:45	Mathematical modeling of IL-6 driven T lymphocyte cross-talk in the disease course and treatment of rheumatoid arthritis <i>SPEAKER:</i> Zviad Kalichava	Regularity Results for Anisotropic PDEs <i>SPEAKER:</i> Eurica Henriques	Controllability of fractional dynamical systems with (k, ψ) -Hilfer fractional derivative <i>SPEAKER:</i> Javid Ali	About the weak attractor for the stochastic 3D-Navier-Stokes system <i>SPEAKER:</i> José Valero	Thermal nonequilibrium double diffusive convection in a fluid saturated anisotropic porous layer with solet effect <i>SPEAKER:</i> Anas Abdallah Altawallbeh	Zero-free regions of $\zeta(\alpha)(s)$ <i>SPEAKER:</i> Emanuel Guariglia	
11:45-12:00	Population dynamics in the context of the influence of COVID-19 <i>SPEAKER:</i> Nicolae Herisanu	Logarithmic double phase problems <i>SPEAKER:</i> Rakesh Arora	Exact solution of fractional order Cheggas virus model <i>SPEAKER:</i> Dia Zeidan	Weak mean random attractors for non-local random and stochastic reaction-diffusion equations <i>SPEAKER:</i> Ruben Caballero Toro	Continua of equilibrium states in ensembles with global coupling <i>SPEAKER:</i> Michael A Zaks	Multifractals in Dynamical systems (On the Doubly non-monotonic perturbed map) <i>SPEAKER:</i> Ibrahim Alsendif	
12:00-12:15	Optimizing immunotherapies for improved cancer treatment <i>SPEAKER:</i> Anne Talkington	Existence and global regularity properties for anisotropic parabolic equations with variable growth <i>SPEAKER:</i> Sergey Shmarev	Exact solutions of time-fractional $(2+1)$ Chemotaxis model using Lie symmetry <i>SPEAKER:</i> B. Bira	Dynamics of the classical chemostat model with real random kinetics <i>SPEAKER:</i> Javier López-de-la-Cruz	Linear Statistical Inverse Problems for Hilbert Space Processes in Hilbert Scales <i>SPEAKER:</i> Mihaila Pricop-Jeckstadt	Towards a nonlinear generalization of spectral decomposition <i>SPEAKER:</i> Jochen Merker	
12:15-12:30	Mathematical modeling and numerical analysis of "Car abandonment" during tsunami evacuation <i>SPEAKER:</i> Sayu Arai	Nonstandard Stummel Spaces and Applications <i>SPEAKER:</i> Alexandre Almeida	Extension of a fractional model identification method for fractional dual-pole plus dead-time models <i>SPEAKER:</i> Juan J. Gude	Application of Random Differential Equations in Compartmental Models for Oral Drug Administration <i>SPEAKER:</i> Cristina L. Perez	Solving Abel type differential equations using multilayer perceptron <i>SPEAKER:</i> Tolga Recep Uçar	Strong convergence of inertial shrinking projection method for split best proximity point problem and mixed equilibrium problem <i>SPEAKER:</i> Mohd Furkan	
12:30-12:45		CD-FEM solutions of fourth-order nonlinear models for the confinement of fluid flows <i>SPEAKER:</i> Nuno D. Lopes					
12:45-14:30 LUNCH 2							
14:30-15:00	Plenary 9 Room: Audit E	Plenary Lecture <i>Speaker:</i> <i>Chair:</i> Zoom	A Critical Review of Fractional Operators With Nonsingular Kernels <i>Speaker:</i> Kai Diethelm <i>Chair:</i> Juan Carlos Cortés				
15:00-15:30	Plenary 10 Room: Audit E	Plenary Lecture <i>Speaker:</i> <i>Chair:</i> Zoom	Network classification using ODE-equivalence <i>Speaker:</i> Ana Paula Dias <i>Chair:</i> Alessio Franci				
	Invited Lecture 5 Room: H202	Invited Lecture 6 Room: Sala de reuniões	Invited Lecture 7 Room: H207	Invited Lecture 8 Room: Sala de Atos			
15:30-16:00	Thermodynamic Insights into Network Dynamics: Statistical Mechanics Perspective <i>Speaker:</i> Dimitri Volchenkov <i>Chair:</i> Juan Carlos Cortés Zoom	Motion and concentration dynamics of small particles and plankton in fluid flows <i>Speaker:</i> Lev Ostrovsky <i>Chair:</i> Walter Lacarnobara Zoom	Approximating the dynamics of a stochastic PDE model by using colored noise <i>Speaker:</i> Tomás Caraballo <i>Chair:</i> Rafael Villanueva Zoom	TBA <i>Speaker:</i> Valentina Balas <i>Chair:</i> Dumitru Baleanu Zoom			
16:00-16:30 COFFEE-BREAK 4 (Building H, A202)							
SYMP 2		SYMP 7	SYMP 10	SYMP 9	SYMP 5	SYMP 3	SYMP 6
Room: Audit E		Room: H210	Room: H207	Room: H202	Room: I201	Room: 208	Room: Sala de Atos
<i>Chair:</i> Marc Jornet		<i>Chair:</i> Tatiana Odziejewicz	<i>Chair:</i> Stephan Anco	<i>Chair:</i> Clara Burgos	<i>Chair:</i> Sandra Pinelas	<i>Chair:</i> Inés Domingues	<i>Chair:</i> M Filomena Teodoro
Zoom		Zoom	Zoom	Zoom	Zoom	Zoom	Zoom
16:30-16:45	Mathematical modeling of crime data with stochastic differential equations <i>SPEAKER:</i> Julia Calatayud	New Refinements of Hermite-Hadamard Inequalities for Left and Right Quantum Integrals <i>SPEAKER:</i> Hüseyin Budak	Exact solutions and conservation laws of a one-dimensional PDE model for a blood vessel <i>SPEAKER:</i> Stephen Anco	A probabilistic approach to determine the best chemotherapy strategy to delay breast tumor relapse <i>SPEAKER:</i> Clara Burgos	TBA <i>SPEAKER:</i> Nedjem Eddine Ramdan	Nonlinear Neural Dynamics of Language Processing: A Recurrence Quantification Analysis of EEG in Dyslexia <i>SPEAKER:</i> Ignacio Rodríguez-Rodríguez	Relative risk of COVID-19 contagion in Mozambique <i>SPEAKER:</i> Teresa A. Oliveira
16:45-17:00	Leveraging Physics-Informed Neural Networks for Immunotherapy Models in Cancer <i>SPEAKER:</i> José A. Rodrigues	Memory-dependent multiojective variational calculus <i>SPEAKER:</i> Tatiana Odziejewicz	Approximation of fuzzy numbers and fuzzy-valued functions <i>SPEAKER:</i> Maria Isabel Berenguer	Probabilistic analysis of a simply supported beam with random parameters <i>SPEAKER:</i> Elena López Navarro	Mathematical model optimization to address pallet loading issues in the automotive industry <i>SPEAKER:</i> Rita de Cássia	Generation of Virtual Children for testing a Recommendation System for Interventions with Children with Dyslexia <i>SPEAKER:</i> José Ignacio JI Mateo Trujillo	A stochastic analysis of the hepatitis B virus model <i>SPEAKER:</i> 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 Okundalaye	Weighted Newton-Type Inequalities via Riemann-Liouville Fractional Integrals SPEAKER: Hüseyin Budak	The effect of migration in predator-prey differential systems SPEAKER: Érika Diz-Pita	A PSO-Based Calibration Method to Estimate Random Model Parameters Distribution in Antibiotic Resistance Dynamics SPEAKER: Carlos Andreu-Villarolig	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: Stephanie 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. Swellam	An artificial neural network approach for the complex dynamics of a SIVR epidemic 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: Anđjelka 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

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Day-3
Saturday, 22nd JUNE 2024

	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	
	Basic Problems in the Theory of Pseudo-Differential Equations	Targeted control of COVID-19 post-mass vaccination	Mathematical modeling of viscoelastic auxetic materials via fractional calculus approach	Investigating the dynamical behavior on systems with a positive maximal Lyapunov Characteristic Exponent near zero	
	<i>Speaker: Vladimir Vasyliov</i>	<i>Speaker: Ganna Rozhnova</i>	<i>Speaker: Marina Shitikova</i>	<i>Speaker: Jamal-Odyseas Maaita</i>	
	<i>Chair: Helena Reis</i>	<i>Chair: Carla M.A. Pinto</i>	<i>Chair: Ioan-Lucian Popa</i>	<i>Chair: Alessio Franci</i>	
	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
	<i>Chair: Urszula Skwara</i>	<i>Chair: Silvério Simões Rosa</i>	<i>Chair: Sandra Pinelas</i>	<i>Chair: Ana Navarro Quiles</i>	<i>Chair: Sergey Shmarev</i>
	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 Britz
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 constrained 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 Kalthoun 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 Differential 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 \mathbb{S}^p -Kirchhoff equations with nonlocal logarithmic nonlinearity SPEAKER: Ugur Sert
11:00-11:30	COFFEE-BREAK 5 (Building H, room A202)				
	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
	<i>Chair: Clara Burgos Simón</i>	<i>Chair: Jorge Mendonça</i>	<i>Chair: Carlos Rodrigues</i>	<i>Chair: Ioan-Lucian Popa</i>	<i>Chair: Brajesh K Jha</i>
	Zoom	Zoom	Zoom		Zoom
11:30-11:45	Probabilistic Analysis of Random Differential Equations with Nonlinearities via the Equivalent Linearization Technique SPEAKER: Joaquin Valencia Sullca	Computer Algebra System integrated in Computer-assisted assessment with Stack in Fourier Series experience SPEAKER: Jorge Pires Mendonça	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	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: Rocío 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 Sabir 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 Room: Audit E	Title Speaker: Chair: Zoom	Modeling Hepatitis Virus Infection in the Liver Ruy Ribeiro <i>Ganna Rozhnova</i>		
14:30-15:00	Invited Lecture 14 Room: Audit E	Title Speaker: Chair: Zoom	Weak and Not so weak Mean Field Coupling regime. Invariant Measures, Convergence to Equilibrium, Linear Response Stefano Galatolo <i>Alessio Franci</i>		
15:15-16:30	CLOSING CEREMONY, SPECIAL TRIBUTE TO PROFESSOR TENREIRO MACHADO AWARDS' CEREMONY Room: Audit Magno Room: A202 Zoom Farewell Port Musical moment with TAISEP				
18:00-23:00	SOCIAL PROGRAM AND GALA DINNER Porto Palácio da Bolsa with live musical moment by Ensemble + surprises				

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