University of Setif1 Ferhat Abbas Faculty of Sciences Department of Mathematics



Fundamental and Numerical Mathematics Laboratory - Applied Mathematics Laboratory

National Conference on Mathematics and Applications "NCMA 23" May 15, 16 2023

Auditorium Mouloud Kacem Nait Belkacem- El Bez

Monday May 15

Morning				
8h 30 – 9h 00	WELCOME-REGISTRATION			
9h 00 – 9h 30	OPENING CEREMONY			
9h 30 – 10h 15	15 Chairman : Pr Noureddine BENHAMIDOUCHE Speaker : Dr Ali KHALOUTA " A new general integral transform and its applications "			
10h 15 – 10h 45	Break			
		Oral Session		
	Session1	Session2	Session3	Session4
	Chairman : Pr Ahmed BERBOUCHA	Chairman : Pr Aissa AIBECHE	Chairman : Pr Salim MOSBAHI	Chairman : Dr Amel DILMI
10h 45 – 11h 10	HAMLAT Zouaoui "Generalizations of the Nonlinear Henry Inequality with Applications to Fractional Dierential Inclusions"	IHADDADENE Lila" Asymptotic stability of a wave equation with Wentzell boundary conditions and nonlinear delays in nonlinear dampings"	LAHCENE Selma "Application of Distance Covariance to time series"	CHEBEL Zoheir "Hom-actions for a Hom- groups and application "
11h 10 – 11h 35	BENABDALLAH Imene "Limit Cycles of Discontinuous Piecewise Differential Systems Formed by Quartiq Hamiltonien Centers and linear Center Separated by a Straight line"	CHORFI Lahcène " Uniqueness in inverse acoustic scattering with far-field data in 2D"	BOUCHERIKHA Ahlem " ITCZ Breakdown and Monsoon Oscillations in a simple barotropic- baroclinic model for the tropical atmosphere"	ZOUILEKH Belkacem "A population- based approach for solving the minimum dominating set problem"
11h 35 – 12h	MECEMMA Imene " Evolution Differential Inclusions with a subsmooth set "	YAHIAOUI Mouna "Co-existence of limit cycles for a class of Kolmogorov systems"	KARA Mohamed "Computational of the eigenvalues located in essential spectrum of an infinite axisymmetric elastic layer"	BENSEBA Boualem " Galois group of trinomials of degree the power of a prime number"

Poster Session				
9h 30 – 12h	2h BENATMANE Sara " New scheme on DNA cryptography" BENHELAL Zoulikha "Groups whose proper subgroups are (locally finite)-by-Engel" HAMANI Ahlem "Groups Whose Proper Subgroups Are Finite-By-(Locally Nilpotent)" CHOUADER Rima "Coexistence Of Limit Cycle In A Septic Kolmogorov System" Enclosing A Non-Elementary Singular Point BELATTAR Meryem "Limit cycles and integrability of a class of quintic differential systems with a degenerate singular point" CHABEKH Meriem "Stability result of a memory-type porous-elastic system with distributed delay term" ALLAOUA Rebeiha "Non-algebraic Crossing Limit Cycle of Discontinuous Piecewise Differential Systems Separated by a Straight Line and Formed by Linear and Cubic Isochronous Centers" GUIDOUM Sabrina "Analysis Of A Two Dimensional Ideal Jet Flow" HAZZAM Nadia "A MEHROTRA TYPE PREDICTOR-CORRECTOR INTERIOR-POINT METHOD FOR P*(k)-HLCP" MADOUR Fouzia "Mathematical Resolution Of a Process Dynamic Functions"			
12h – 14h	Break			
Afternoon				
14h – 14h 45	Chairman : Pr Djamel BENTERKI Speaker : Pr Mohamed HACHAMA " Optimization Problems in Image Processing "			
14h 45 – 15h 15	Break			
		Oral Session		
	Session1	Session2	Session3	Session4
	Chairman : Dr Ilyas BOUKAROURA	Chairman : Dr Mohamed RAHAL	Chairman : Dr Aissa BENSEGHIR	Chairman : Dr Rachid CHEURFA
15h 15 –15h40	LADJEROUD Asma " About the quasi- hyperbolic regime in piecewise smooth mappings "	SAAIDIA Noureddine "A Modified Chi- squared Goodness-of-Fit Test for the Kumaraswamy-Log-Logistic Distribution and its Application in Reliability"	AIB Aziza "Optimal Control Problem Governed by an Infinite Dimensional Nilpotent Bilinear Systems"	GRAZEM Mohamed " Kolmogorov System With Two Hyperbolic Limit Cycles"
15h 40 – 16h 05	BENATTIA Messaouda " Study A Nonlinear Evolution Dam Problem On One Direction"	CHOUGAR Wissem " Optimally system for hyperbolic equations depending on a parameter"	YAZID Fares "Blow-Up Of Solution For Coupled Nonlinear Klein-Gordon Equations "	ADJABI Yassine "Analytic Properties of Solutions of a Class of Fourth Order Differentials Equations"
16h 05 – 16h 30	BOUZEGHAYA Fouzia "Different boundary problems for the dynamic operator of nonlinear plate vibration"	BOUAZIZ Tayeb "Malliavin Calculus Used To Derive Optimality Conditions For A Bsde Governed By Fractional Brownian Motion"	GARICI tarek "ON THE EQUATION Res _x (P(x); x ² + sx + t) = a"	HEBBOUL Doudja "Existence of Positive Radial Solutions to a p- Laplacian Kirchhoff Type Problem on the Exterior of a Ball"
Poster Session				
14 h – 16h 30	BENZATAT Rim "Analysis of a two diment BITAM Messaoud "Existence of positive BOUGUEROUA Soulef "Study Of Some Alg SAFFIDINE Khaoula Imane "Reaction-Diff	ional ideal jet flow'' solutions for a p-laplacien equation with cor gorithms In Image Processing'' usion Model Driven from Natural''	mpactness of solutions set"	

HATHAT Fatima "Solving nonlinear time-fractional gas dynamics equations"
BENMENNI Rania "On the Relation between the Maximum Principle and Dynamic Programming Principle for Differential Games"
BENNANI Ahlem "Adaptive projection methods for quadratic fractional programming"
HEMIS Rokia "Mixture Periodic GARCH models"
MALEK Abdelali "Asymptotic Analysis OF a HERSCHEL-BULKLEY fluid In a Thin Domain With Tresca Boundary Conditions"
KHANCHOUCHE Fatima "The Best Nash Equilibrium in Singleton Congestion Game"
DJEMAI Samiha "Dynamics of Degenerate Reaction-Diffusion Model Arising in Biology"

Tuesday May 16

Morning					
8h 30 - 9h 15	Chairman : Pr Bachir MERIKHI				
	Speaker : Pr Aissa AIBECHE " Trace's in Sobolev Spaces on Lipschitzian Domains in R ² "				
9h 15 – 10h	Chairman : Pr Naceurdine BENSALEM Speaker : Pr Noureddine BENHAMIDOUCHE " La modélisation mathématique au service du développement technologique "				
10h - 10h 30	Break				
	Oral Session				
	Session1	Session2	Session3	Session4	
	Chairman : Dr Ali KHALOUTA	Chairman : Dr Touffik BOUREMANI	Chairman : Pr Abdelatif BOUREGHDA	Chairman : Pr Abdelmadjid BOUDAOUD	
10h 30 – 10h 55	SMATA Sihem "A Frictionless Contact Problem for Piezoelectric Thermal Materials with Adhesion and Internal State Variable"	KHALDI Merzaka "A new iteration algorithm for the simplicial cone constrained convex quadratic optimization"	BOUDIAF Amel " On the energy decay of a nonlinear viscoelastic wave equation with boundary dissipation"	DJELLALI Fayssal "General energy decay for a type III thermoelastic Bresse system"	
10h 55 – 11h 20	BOUSBA Sara, "A non-iterative sampling technique to inverse elastic source problems"	ANANE Nassima "An iterative method for solving the general absolute value equations"	OURAHMOUN Abbes "Analytic method for solving nonlinear Schrodinger equation in bi-isotropic fiber"	BERBACHE Aziza " Limit cycles for a class discontinuous piecewise polynomial diffrential systems via averaging theory "	
11h 20 – 11h 45	BENZIANE Laldja "An Antiplane Contact Problem For Thermo- electro-Viscoelastic Materials"	BOUDJELLAL Nawel, "A new full- Newton step feasible interior point method for convex quadratic programming"	CHOUCHANE Lamia " A viscoelastic contact problem with long memory and frictional contact conditions with unilateral constraint and normal damped response"	BOUDRAF Mohammed, "Hermite functions and inner product in Sobolev space"	

11h 45 – 12h 10	ZERAOULIA Rafik " Chaos in the Cubic-Quintic Duffing Equation"	ALIANE Mohamed " A numerical technique for solving linear optimal control problems with final state constraints"	GHOBRINI Amina "Energy spectrum of the Feynman propagator with the Generalized Hyperbolic Potential"	GHETTOUT Yasmina " A novel hyperchaos generated from three dimensional modified Lorenz chaotic system "		
	Poster Session					
9h 30 – 12h	HAKIM Maroua "Solving the four-index fuzzy fixed charge transportation problem" BENGHEBRID Safa "Optimal trajectories and Feedback strategies of warfare differetial game problem" ZAOUI Billel "Complexity analysis of a new interior point algorithm for linearly constrained convex optimization" GRIMES Welid "A numerical implementation of an infeasible interior-point algorithm for horizontal linear complementarity problems" ZEGHAD Bochra "A modified Proximal Point algorithm and its Convergence" BOUKELIA Ahmed Ayoub "Numerical Study of Incompressible Navier-Stokes Equations" BELABBES Soumaya "Numerical Techniques for Solving Solidification Of Water" LAHLAH Taklit Hana "Asymptotic study of a Herschel-Bulkley uid in stationary regime in thin domain" GUENOUNE Chahira " A problem with wear involving electro-viscoelastic materials" CHETIOUI lina "Numerical solution of general fractional Riccati differential equation"					
12h 10 – 14h	Break					
Afternoon						
14h – 14h 45	Chairman : Pr Rachid ZITOUNI					
	Speaker : Dr Abderrahmane ZIAD " Existance of a Cournot-Nash equilibruim : New results with a simple proof "					
14h 45 – 15 h 15	Break					
15h 15 – 15h 45	CLOSING CEREMONY					