University of Setif1 Ferhat Abbas
Faculty of Sciences
Department of Mathematics

Fundamental and Numerical Mathematics Laboratory - Applied Mathematics Laboratory

Université Ferhat ABBAS Sétif 1

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	Chairman : **Pr Noureddine BENHAMIDOUCHE** Speaker : **Dr Ali KHALOUTA "** A new general integral transform and its applications **"**			
10h 15 – 10h 45	**Break**			
Oral Session				
	Session1 Chairman : **Pr Ahmed BERBOUCHA**	Session2 Chairman : **Pr Aissa AIBECHE**	Session3 Chairman : **Pr Salim MOSBAHI**	Session4 Chairman : **Dr Amel DILMI**
10h 45 – 11h 10	**ZOUAOUI Hamlat** " 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''	**BOUDRAF Mohammed,** '' Hermite functions and inner product in Sobolev space''	**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	**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 Chairman : **Dr Ilyas BOUKAROURA**	**Session2** Chairman : **Pr Mohamed RAHAL**	**Session3** Chairman : **Dr Aissa BENSEGHIR**	**Session4** 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 dimentional ideal jet flow'' **BITAM Messaoud** " Existence of positive solutions for a p-laplacien equation with compactness of solutions set" **BOUGUEROUA Soulef** ''Study Of Some Algorithms In Image Processing'' **SAFFIDINE Khaoula Imane** ''Reaction-Diffusion Model Driven from Natural''			

	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 Chairman : **Dr Ali KHALOUTA**	**Session2** Chairman : **Dr Touffik BOUREMANI**	**Session3** Chairman : **Pr Abdelatif BOUREGHDA**	**Session4** 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''	**CHORFI Lahcène "** Uniqueness in inverse acoustic scattering with far-field data in 2D **"**

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'' **OUAOUA Mohamed Lamine** ''Numerical study of two Conjugate gradient for Unconstrained optimization Problems''			
12h 10 – 14h	Break			
Afternoon				
14h – 14h 45	Chairman : **Pr Rachid ZITOUNI** Speaker : **Dr Abderrahmane ZIADE "** Existance of a Cournot-Nash equilibruim : New results with a simple proof **"**			
14h 45 – 15 h 15	Break			
15h 15 – 15h 45	CLOSING CEREMONY			