

International Conference on Recent Advances In Pure and Applied Mathematics,
20 and 21 November 2024, Skikda, Algeria



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UNIVERSITÉ 20 AOUT 1955 SKIKDA

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International Conference on Recent Advances In Pure and Applied Mathematics, (ICRAPAM'2024)

PROGRAMME

November 20-21, 2024

SALLE DES CONFERENCES 600

Programme du Premier Jour : Mercredi 20 novembre 2024

Lieu	Heure	Activité			Nom de l'Intervenant	Titre de la Présentation
Salle de Conférence (600 places)	08h00 - 09h00	Inscription				
Salle de Conférence (600 places)	09h00 - 09h30	Ouverture Officielle				
Amphithéâtre L	09h30 - 10h50	Session 1 : Plénière	Pr. H. SISAOUI	9h30-10h10	Pr. A. NOUAR	قراءة في تاريخ الرياضيات بين النظري و التطبيقي
				10h10-10h50	Pr. P. SPITERI	BEHAVIOUR OF ASYNCHRONOUS SUBDOMAIN METHOD IMPLIMENTED ON CLOUD COMPUTING FOR DE NUMERICAL SOLUTION OF PDE
	10h50 - 11h10	Pause-Café & Session Posters (1) Voir la page 5				
Salles 1,2,3,4	11h10 - 12h30	Session 2 : Ateliers	Salle 01 Pr. A.GUESMIA	11h10-11h30	DEBZ NASSIMA	ON THE MAXIMUM NUMBER OF LIMIT CYCLES OF KUKLES POLYNOMIAL DIFFERENTIAL SYSTEMS
				11h30-11h50	REZAIKI NABIL	LIMIT CYCLES OF PERTURBED CUBIC UNIFORM ISOCHRONOUS CENTER VIA AVERAGING METHOD
				11h50-12h10	BOUCHELAGHEM FAYCAL	STUDY EXISTENCE, STABILITY AND EXPONENTIAL STABILITY OF POSITIVE PERIODIC SOLUTIONS FOR DYNAMIC EQUATIONS
				12h10-12h30	Houria CHELLAOUA	EXPONENTIAL STABILITY OF NONAUTONOMOUS SEMILINEAR EVOLUTION EQUATIONS WITH TIME-VARYING DELAY FEEDBACK
			Salle 02 Pr. M.MAOUNI	11h10-11h30	SELMANI WISSAME	A VARIANT OF THE WEIGHTED QUASI-BOUNDARY VALUE METHOD FOR AN ABSTRACT FRACTIONAL GENERALIZED ELLIPTIC CAUCHY PROBLEM
				11h30-11h50	SAIHI FERAL	ASYMPTOTIC NORMALITY OF KERNEL DENSITY ESTIMATORS FOR CENSORED ASSOCIATED DATA
				11h50-12h10	MADJOUR BILEL	GENERAL DECAY OF THE VISCOELASTIC EULER-BERNOULLI EQUATION WITH LOGARITHMIC NON LINEARITY
				12h10-12h30	ACHAB FATMA	OPTIMAL CONTROL OF BILINEAR WAVE EQUATION WITH MISSING INITIAL CONDITION
			Salle 03 Pr. H.LEKHAL	11h10-11h30	LAKIKZA HANANE	WELL-POSEDNESS OF A NONLINEAR INTERFACE PROBLEMS OF A MULTIPHASE MULTICOMPONENT MODEL
				11h30-11h50	BOUNOUALA AMINA	WEAK SOLUTION FOR A CLASS OF $p(x)$ -LAPLACIAN EQUATIONS
				11h50-12h10	BERHAIL AMEL	ON NONLOCAL INTEGRAL AND DERIVATIVE BOUNDARY VALUE PROBLEM OF NONLINEAR LANGEVIN EQUATION
				12h10-12h30	HALLOUZ ABDELHAMID	STABILIZATION AND REGULARITY OF A COUPLED SYSTEM
			Salle 04 Dr. M.BENHADRI	11h10-11h30	TOUATI MOHAMED	EXISTENCE AND MULTIPLICITY OF SOLUTIONS FOR GJMS OPERATORS (K=2) ON NON-EINSTEIN MANIFOLDS
				11h30-11h50	BELAMOUCHE CHAHINEZ	EXISTENCE OF POSITIVE RADIAL SOLUTION FOR SOME NONLOCAL ELLIPTIC PROBLEM
				11h50-12h10	HETTADJ DJAMEL-EDDINE	EXISTENCE RESULTS FOR NONLINEAR FRACTIONAL DIFFERENTIAL INCLUSION
				12h10-12h30	SAIFIA OUARDA	EXISTENCE RESULT FOR NONLINEAR FRACTIONAL DIFFERENTIAL SYSTEM WITH BOUNDARY CONDITIONS
	13h00 - 13h45	Déjeuner				
Amphithéâtre L	13h45 - 14h25	Session 3 : Plénière	Pr. A NOUAR	13h45-14h25	Pr. AHMED ABELMONEIM EL-DEEB	ADVANCES IN DYNAMICS INEQUALITIES ON TIME SCALES AND ITS APPLICATIONS TO THE QUALITATIVE THEORY
Salles 01,02,03,04	14h25 - 15h25	Session 4 : Ateliers	Salle 01	14h25-14h45	HAMIDI NABIL	GLOBAL ANALYSIS OF A MODEL OF COMPETITION IN CHEMOSTAT WITH INHIBITION
				14h25-14h45	LOUNES AMEUR	A NUMERICAL SOLUTION FOR THE SINGLE-SERVER QUEUE

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			Pr. Z.HOUEN	14h45-15h05	DIABI DALLEL	WITH PHASE TYPE DISTRIBUTION SERVICE TIMES
				15h05-15h25	DJEDID ZAHIA	Nonlinear Delay Integral Inequalities: Exploring the Volterra-Fredholm Framework on Time Scales
			Salle 02 Dr. H.KHOCHMEN	14h25-14h45	HANENE DEBBICHE	ON SOLUTIONS OF DIFFERENTIAL AND INTEGRAL EQUATIONS USING NEW FIXED POINT IN CONE E_b METRIC SPACES
				14h25-14h45	MARWA DJEMOUI	ON A GENERALIZED NON-STATIONARY STOKES PROBLEM UNDER TRESCA'S FRICTION BOUNDARY CONDITION
				14h45-15h05	ZEGHDANE REBIHA	A STABILITY RESULT FOR A NONAUTONOMOUS DELAYED VISCOELASTIC WAVE EQUATION
				15h05-15h25	CHAHNAZ TIMIMOUN	ROBUST METHODS FOR APPROXIMATING SOLUTIONS TO STOCHASTIC INTEGRAL EQUATIONS
			Salle 03 Dr. K. SLIMANI	14h25-14h45	HIBER NOUR EL ISLAM	WELL-POSEDNESS AND EXPONENTIAL STABILITY OF THE KDV EQUATION WITH TIME-DELAY
				14h25-14h45	H. B. BOULARES	A GLOBAL OPTIMIZATION APPROACH USING α -DENSE CURVES
				14h45-15h05	KELTHOUM LINA REDOUANE	BOUNDEDNESS OF SOME SUBLINEAR OPERATORS ON WEAK HERZ SPACES WITH VARIABLE EXPONENTS
			Salle 04 Pr. M.BOUDIAF	15h05-15h25	GHENNEM KARIMA	AN ADVANCED COMPUTATIONAL APPROACH THROUGH THE INTEGRATION OF CUBIC B-SPLINE METHOD FOR THE RESOLUTION OF A NON-LINEAR WAVE EQUATION
				14h25-14h45	BOUDEHANE KHEIREDDINE	STUDY OF LAMINATED BEARS WITH INTERFACIAL SHIP
				14h25-14h45	BENKEMACHE IBTISSEM	STANDBY REDUNDANCY IN REPAIRABLE SYSTEMS WITH GENERAL REPAIR TIMES
				14h45-15h05	KAREK CHAFIA	HOW TO SOLVE A CONFORMABLE PARTIAL DIFFERENTIAL EQUATIONS BY ATOMIC SOLUTION
				15h05-15h25	TABET ACHREF EDDINE	ASYMPTOTIC BEHAVIOUR OF EVOLUTION PROBLEM IN A PERFORATED DOMAIN
				15h05-15h25		MAXIMUM NUMBER OF LIMIT CYCLES FOR A CLASS OF DIFFERENTIAL SYSTEMS VIA FOURTH-ORDER AVERAGING THEORY
	15h25 - 15h45	Pause Café & Session Posters (2) Voir la page 6 et 7				
15h45 Visite du Musée des Sciences et du Jardin Botanique de L'Université						

Programme du Deuxième Jour : Jeudi 21 novembre 2024

Lieu	Heure	Activité	Inscription			
Salle de Conférence (600 places)	08h00 - 09h00					
Amphithéâtre L	09h00 - 09h40	Session 1 : Plénière		9h30-10h10	Dr. BENDIB RIAD	MATHEMATICS AND STARTUPS
Salles 1,2,3,4	09h40 - 10h40	Session 2 : Ateliers	Salle 01 Dr. Z.MARSA	09h40-10h00	KINA ABDELKRIM	A CLASS OF AUTONOMOUS SECOND-ORDER DIFFERENTIAL SYSTEMS WITH AN EXPLICIT ALGEBRAIC LIMIT CYCLE
				10h00-10h20	BENHADRI MIMIA	POSITIVITY OF PERIODIC SOLUTIONS FOR A CLASS OF FUNCTIONAL DELAY DIFFERENTIAL EQUATIONS
				10h20-10-40	MOHAMED CHERIF BELILI	BIFURCATION ANALYSIS AND STABILITY IN A DISCRETE-TIME SIRS MODEL: INSIGHTS FROM THE COVID-19 PANDEMIC IN THE USA
			Salle 02 Dr. N.RAMDANE	09h40-10h00	FELLAG ARIOUAT AYYOUB	SOME PROPERTIES OF NON-NORMAL OPERATOR ON HILBERT SPACES
				10h00-10h20	NABILA BELLEL	EXPONENTIAL STABILITY RESULT FOR A POROUS PROBLEM WITH FRACTIONAL TIME DELAYS
				10h20-10-40	SETTARA LOUBNA	AN INVERSE SOURCE TIME FRACTIONAL DIFFUSION PROBLEM VIA AN INPUT-OUTPUT MAPPING
			10h40-11h00	OUAOUA Amar	ON THE BLOW-UP OF SOLUTIONS FOR A COUPLE OF PARABOLIC EQUATIONS WITH	

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			Salle 03 Dr. S.LEULMI	09h40-10h00	LATRECHE ABDELKRIM	MEMORY TERMS AND VARIABLE EXPONENTS		
				10h00-10h20	MEBDOUA RABAH	THE UNIVERSAL MORHISM 'PRODUCT' IN THE CATEGORY OF SINGLE VALUED NEUTROSOPHIC SETS		
				10h20-10-40	BOUSSETOUAN IMANE	ON CONVOLVED GENERALIZED FIBONACCI AND LUCAS POLYNOMIALS		
				10h40-11h20	CHOUADER RIMA	EXISTENCE AND REGULARITY RESULTS FOR AN ELLIPTIC SYSTEM WITH MIXED BOUNDARY CONDITIONS		
				Salle 04 Dr.A.BOULFOUL	09h40-10h00	NOUAOURA SARRA	NON-EXISTENCE OF LIMIT CYCLE OF SEPTIC KOLMOGOROV SYSTEM	
					10h00-10h20	HOUASNI MOHAMED	EFFECT OF DECAY TERMS ON THE THREE-TIERED MODEL OF ANAEROBIC DIGESTION	
					10h20-10-40	BOUCENA DJALAL	ON THE EXPONENTIAL DECAY OF A THERMOELASTIC POROUS SYSTEM WITH A FORCING TERM AND CONSTANT DELAY	
					10h40-11h20	MELLAHI NAWAL	GENERAL DECAY RESULT FOR A NONLINEAR TIMOSHENKO SYSTEM	
					LIMIT CYCLES FOR GENERALIZATION OF POLYNOMIAL LIENARD DIFFERENTIAL SYSTEMS			
	10h40 - 11h00	Pause-Café & Session Posters (3) Voir la page 8						
Salles 1,2,3,4	11h00 - 12h20 Session 3 : Ateliers	Session 3 : Ateliers	Salle 01 Dr. S.LAGRAF	11h00-11h20	ABDALLAH BRIK	ON THE LIMIT CYCLES OF A SECOND ORDER DIFFERENTIAL SYSTEM		
				11h20-11h40	KHELILI BESMA	A MODIFIED QUASI-BOUNDARY VALUE METHOD FOR AN ABSTRACT ILL-POSED CAUCHY PROBLEM GOVERNED BY A DIFFERENTIAL-OPERATOR EQUATION OF FOURTH ORDER		
				11h40-12h00	IBRAHIM DAAMECHE	EXISTENCE AND STABILITY RESULTS FOR THERMODIFFUSION LAMINATED BEAM SYSTEM WITH DELAY FEEDBACK		
				12h00-12h20	SOULEF BOUGUEROUA	NUMERICAL COMBINATION OF ANISOTROPIC AND ISOTROPIC TV DENOISING PROBLEMS		
			Salle 02 Pr. S.ZITOUNI	11h00-11h20	TOUNSI LABCHAR	AROUND GENERALIZATION STIRLING NUMBERS AND BELL POLYNOMIALS		
				11h20-11h40	OUCHEN IMENE	ON BAYESIAN BONUS-MALUS PREMIUM UNDER LINEX LOSS FUNCTION WITH APPLICATIONS		
				11h40-12h00	ABDELKADER BOUDELLAL	MORDELL-TORNHEIM MULTIPLE ZETA VALUES AT NON-POSITIVE INTEGERS		
				12h00-12h20	ABBAD BILAL	THE EXPONENTIAL DECAY OF A THERMOELASTIC POROUS SYSTEM WITH A FORCING TERM AND NON-VARIANT DELAY		
			Salle 03 Dr. L.BOUZETTOUA	11h00-11h20	HEBHOUB FAHIMA	STABILIZATION OF A MICROTEMPERATUR POROUS-ELASTIC SYSTEM WITH DISTRIBUTED DELAY-TIME		
				11h20-11h40	KHENNICHE GHANIA	A NUMERICAL METHOD BASED ON FINITE DIFFERENCE FOR WAVE SYSTEM WITH VARIABLE COEFFICIENT		
				11h40-12h00	BEDRANI YASSINE	NEW INEQUALITIES RELATED TO ACCRETIVE MATRICES		
				12h00-12h20	LALLOUCHE Abdallah	Qualitative Behaviour of Some Biological Mathematical Models		
			Amphithéâtre L	12h40 - 13h25	CLOTURE			
				13h25 -	Déjeuner			

Programme session Posters (1)

Mercredi 20/11/2024

10h:50-11h:10

1	MAADANI Mustapha	University Hassiba Benbouali	ON CLASS A OF OPERATORS IN SEMI-HILBERTIAN SPACES
2	ABED YFRAH	University Relizane, Relizane	NUMERICAL ANALYSIS AND SIMULATION FOR A VISCOELASTIC WAVE EQUATION
3	Djahida Tilbi	University 20 August 1955, Skikda	<i>Simulation of Burr-Hatke exponential distribution in R</i>
4	KEDDALI MERIEM	University Badji Mokhtar, Annaba	RETROACTIVE EXAMINATION UNDER VARYING LOSS FUNCTIONS FOR TYPE II CENSORED DATA
5	CHOUIA SARRA	University badji mokhtar, Annaba.	THE NEW MIXTURE DISTRIBUTION PROPERTIES & APPLICATION
6	BELYACINE ZAHIA	University 20 August 1955, Skikda	NON TRIVIAL SOLUTION FOR A NON LINEAR ELLIPTIC EQUATION OF (p, q)- LAPLACIEN PROBLEM AT RESONANCE
7	FOUGHALI FOUZIA	University 20 August 1955, Skikda	WELL-POSEDNESS AND GENERAL DECAY FOR A THERMOELASTIC SWELLING POROUS SYSTEM WITH SECOND SOUND
8	HANECHÉ NABIL	University of Mentouri Brothers, Constantine.	A SECURE COMMUNICATION SCHEME BASED ON ADAPTIVE HYBRID SYNCHRONIZATION OF FRACTIONAL-ORDER HYPERCHAOTIC SYSTEMS
9	BELLABES ZINEB	University of TIARET	CONFORMABLE DERIVATIVE AND EVOLUTION EQUATION
10	ROUMAÏSSA ELBAY	University Mohamed Khider, Biskra.	LEAST-SQUARES CROSS-VALIDATION BANDWIDTH SELECTION FOR KERNEL DISTRIBUTION FUNCTION UNDER DOUBLE TRUNCATION DATA
11	BELLABES ZINEB	University of TIARET	EXISTENCE AND STABILITY OF WEAK SOLUTIONS FOR SEQUENTIAL FRACTIONAL DIFFERENTIAL EQUATIONS IN BANACH
12	ABDELI MANEL	University 20 August 1955, Skikda	STABILIZATION OF THERMOELASTIC BRESSE SYSTEM WITH DISTRIBUTED NEUTRAL DELAY
13	BENATMANE Chaabane	University 20 August 1955, Skikda	Generating Probability Densities Using the Modified Poisson Process
14	FAGHMOUS CHADIA	University 20 August 1955, Skikda	QUADRATIC DECOMPOSITION OF 2-ORTHOGONAL POLYNOMIALS SEQUENCES
15	BENDIB EL OUAHMA	University 20 August 1955, Skikda	PHASE PORTRAITS FOR A CERTAIN CLASS OF GENERALIZED POLYNOMIAL DIFFERENTIAL SYSTEMS

Programme session Posters (2)

Mercredi 20/11/2024

15 :25-15 :45

1	AMEL ELBAHI	University 20 August 1955, Skikda	POSITIVE PERIODIC SOLUTIONS FOR NEUTRAL FUNCTIONAL DIFERENTIAL SYSTEMS WITH ITERATIVE TERM
2	BENAOUDA OUM ELKHEIR	University of Science and Technology Oran	ASYMPTOTIC NORMALITY OF A NONPARAMETRIC ESTIMATOR OF THE CONDITIONAL DENSITY FUNCTION FOR FUNCTIONAL DATA
3	BENZAHI AHLEM	University center of Mila	EXISTENCE RESULT FOR NONLINEAR IMPLICIT FRACTIONAL DIFFERENTIAL EQUATIONS WITH NON INSTANTANEOUS IMPULSES UNDER CAPUTO-FABRIZIO DERIVATIVE
4	KIMOUCHE KARIMA	University 20 August 1955, Skikda	ON THE PROBABILISTIC STRUCTURE OF SOME SBL MODELS
5	HACHELFI MOUNAL	University Badji Mokhtar, Annaba	ENERGY DECAY RESULT OF THERMOELASTIC SYSTEM BY MICROTEMPERATURE EFFECTS
6	FEKRACHE ZINE EDDINE	University constantine 1, constantine	HOPF BIFURCATION OF THE COEXISTENCE EQUILIBRIUM AND STABILITY FOR A DIFFERENTIAL-ALGEBRAIC BIOLOGICAL ECONOMIC SYSTEM: PREDATOR HARVESTING
7	HABIBA TOUMI	University 20 August 1955, Skikda	MULTIPLE WELL-POSEDNESS OF HIGHER-ORDER OF THE ABSTRACT CAUCHY PROBLEM
8	WAHIBA METIRI	University 20 August 1955, Skikda	A DENSITY FUNCTIONAL THEORY STUDY (DFT) OF ELECTRONIC PROPERTIES OF X3V (X = Ir, Rh) INTERMETALLIC COMPOUNDS
9	LEULMI SOUMYA	University 20 August 1955, Skikda	THEORETICAL AND NUMERICAL RESULTS FOR LINEAR OPTIMIZATION
10	LEULMI ASMA	University of Ferhat Abbas Setif-1	A MODIFIED NONLINEAR CONJUGATE GRADIENT ALGORITHM FOR UNCONSTRAINED OPTIMIZATION PROBLEMS
11	BOUDJEMA Souhila	University 20 August 1955, Skikda	S- asymptotically w-periodic solutions of heat equations
12	MEZHOUD KENZA ASSIA	University of Constantine 1	Asymptomatic normality of recursive relative error regression estimator
13	OUIZA IMINE	University of Bouira , Algeria	PLANAR BIPARTITE MIXED GRAPHS
14	LOUDINA SIHEM	Badji Mokhtar-Annaba University,	GLOBAL BEHAVIOR OF THE BIOLOGICAL MODEL

15	HANNACHE Amel	University 20 August 1955, Skikda	UN PROBLEME D' EVOLUTION AVEC OBSTACLE PAR ' DECOMPOSITION DE DOMAINE SANS RECOUVREMENT
16	Bekri Houria	University of Bouira	Solve a system of nonlinear equations and inequations using global optimization procedures
17	LALLOUCHE ABDALLAH	University 20 August 1955, Skikda	Stochastic Perturbation of Mathematical Models in Population Dynamics
18	LECHEHEB SAMIRA	University 20 August 1955, Skikda	EXISTENCE RESULTS FOR A NONLINEAR $(P(X),Q(X))$ -ELLIPTIC SYSTEM VIA TOPOLOGICAL DEGREE

Programme session Posters (3)

Jeudi 21/11/2024

12:10-12:40

2	ZIBOUCHE WASSILA	University 20 August 1955, Skikda	SOLVABILITY OF SECOND ORDER DIFFERENTIAL OPERATOR WITH IRREGULAR INTEGRAL BOUNDARY CONDITION AND TRANSMISSION CONDITIONS
3	Fateh SACI	University 20 August 1955, Skikda	MATHEMATICAL STUDY OF THE BAGLEY-TORVIK EQUATION
4	AFEF AMINA RABIA	University Badji Mokhtar, Annaba	ON PERIODIC SOLUTIONS FOR A CLASS OF SECOND-ORDER DIFFERENTIAL EQUATIONS VIA AVERAGING THEORY
5	Boulkheloua Chaima	University 20 August 1955, Skikda	STABILITY RESULTS FOR LORD SHULMAN THERMOELASTIC SYSTEM WITH POROUS DAMPING AND DISTRIBUTED DELAY TERM
6	Boucenna Ahcene	University 20 August 1955, Skikda	Application des systèmes de Chaos au Cryptage d'images
7	KHELED CHEIKH	University 20 August 1955, Skikda	THEORETICAL STUDY OF PD3V AND PT3V INTERMETALLICS BASED ON DENSITY FUNCTIONAL THEORY (DFT) METHOD
8	FAGHMOUS CHADIA	University 20 August 1955, Skikda	QUADRATIC DECOMPOSITION OF 2-ORTHOGONAL POLYNOMIALS SEQUENCES
9	HADDARI ALLAEDDINE	University Batna 2, Batna	CHARACTERISTICS AND UTILIZATIONS OF THE MODIFIED BIVARIATE POISSON-LINDLEY APPROACH IN SOCCER
10	BENFERDI SABRINA	University 20 August 1955, Skikda	Variational analysis of some frictionless contact problems
11	KAREK WIDAD	University 20 August 1955, Skikda	EXPONENTIAL STABILITY OF SWELLING POROUS WITH GURTIN –PIPKIN THERMOELASTICITY AND DELAY TERM