PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
وزارة التعليـم العالي والبحث العلمي
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH
المركـز الجامعي عبد الحفيظ بوالصوف ـ ميلـة
ABDELHAFID BOUSSOUF UNIVERSITY CENTER OF MILA
معهد الرياضيات والإعلام الآلي
INSTITUTE OF MATHEMATICS AND COMPUTER SCIENCE

Institute of Mathematics and Computer Science Department of Mathematics
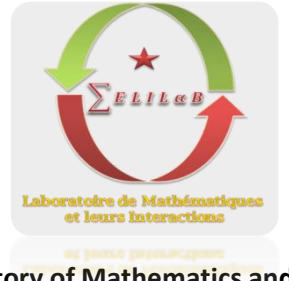
Laboratory of Mathematics and their Interactions

International Conference on Contemporary Mathematics and its Applications (ICCMA 2023) 26-27 November 2023, Mila - Algeria

Conference Program (Online)

Sunday, November 26, 2023:

Opening Ceremony

08:30 - 09:00

The director of the Abdelhafid Boussouf University Center of Mila

Prof. BOUCHELAGHEM Amirouche

Welcome word

Plenary Conference

09:00 - 10:00

Prof. René Lozi (Université Côte d'Aur, Nice, France)

Conference title: *Are chaotic dynamical systems useful for the advancement of science?*

10:00 - 10:30
coffee break

Google Meet Link: https://meet.google.com/qkg-ukcm-cgo

Session 1:   Partial Differential Equations

Chairmen: Bencheikh Le Houcine Med Lamine – Arroud Chemseddine

Google Meet Link: https://meet.google.com/gpf-nzro-nfa

Hour	Speaker	Presentation Title
10:30 - 10:45	Benterki Djamila	General decay of energy for a neutrally delayed coupled nonlinear Euler-Bernoulli beam
10:45 - 11:00	Meriem Boussebha	Reaction diffusion model for glioma growth
11:00 - 11:15	Bouchenak Ahmed	Atomic Exact Solution for Some Fractional Partial Differential Equations in Banach Spaces
11:15 - 11:30	Amed Bourobta	Examining the possibility of finding solutions for singular and degenerate fractional nonlinear parabolic Dirichlet problems.
11:30 - 11:45	Lecheheb Samira	Existence of nontrivial solution for nonlinear system involving non-compact resolvent operator
11:45 - 12:00	Imene Khalifa	Inverse problem of determinig radially symmetric potential by an imperfect conductor in 2D
12:15 - 12:30	Benhamida Ghania	Multiples solutions for fractional p-Laplacian Schrodinger-Kirchhoff type equations with general potentials
12:30 – 12:45	Allaoui Nour Elhouda	Nonlinear anisotropic elliptic system with irregular data
12:45 – 13:00	Lahlah Taklit Hana	On strong convergence of the solution
13:00 – 13 :15	Brahimi Siham	Weakened Well-Posedness of a Characteristic Boundary Value Problem
13:15 – 14 :00		**Lunch break**
14 :00 – 15 :00		**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00		

Session 2: Control and Optimisation + Game Theory and Economics		
Chairmen: **Azi Mourad – Ali Zaidi**		
Google Meet Link: **https://meet.google.com/czm-rwau-qwf**		
Hour	**Speaker**	**Presentation Title**
10:30 - 10:45	Hamza Bibi	**New lmi result for robust control design of observer-based controllers, the continuous-time case with parameter uncertainties**
10:45 - 11:00	Nawel Boudjellal	**A theoretical analysis of new interior point method for linearly constrained convex optimization**
11:00 - 11:15	Linda Menniche	**An interior-point algorithm for linear programming based on a new approximate function**
11:15 - 11:30	Khanchouche Fatima	**Congestion game, nash equilibria and anarchy price**
11:30 - 11:45	Rahal Mohamed	**Covering global optimization algorithm using tangent minorants for multivariate holder functions**
11:45 - 12:00	Elgroud Nabil	**Optimal control problem of sdde under the g-expectation framework and its economic application**
12:00 - 12:15	Bachi Katia	**Risk bounds and uncertainty propagation**
12:15 - 12:30	Achab Fatma	**Study the controllability of a fractional problem**
12:30 – 12:45	Djelloul Naima	**Support vector machine and kernels**
12:45 – 13:00		
13:00 – 14 :00	**Lunch break**	
14 :00 – 15 :00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00		

November 26, 2023 (Online)

Session 3: **Functional Analysis + Operator Theory**

Chairmen: Messaoud Maouni – Arar Nouria

Google Meet Link: **https://meet.google.com/ovf-tpcy-pay**

Hour	Speaker	Presentation Title
10:30 - 10:45	Kumar Akshay	Extended locally convex spaces and their duals
10:45 - 11:00	Manish Jain	Coupled Fixed Point Results Establishing the Solution of an Elastic Beam Differential Equation in GV-FMS
11:00 -11:15	Sharma Shalu	Solution and stability of new type of quadratic multiplicative functional equation
11:15 - 11:30	Zehani Oussama	Characterization a topological space by a multi-function associated by binary relation
11:30 - 11:45	Tayeb Mahrouz	Contributions to the iterates problem of hypoelliptic operators in roumieu spaces
11:45 - 12:00	Djamila Derouiche	Dynamic programming via extended f -contraction of hardy-rogers-type
12:15 – 12:30	El houari Ghorab	Algebras of generalized functions of colombeau type and fourier analysis
12:30 – 12:45	Bouhali Aissa	Finite rank commutators of toeplitz operators on the bergman space
12:45 – 13:00	Smail Sara	Essential pseudospectra of 3 ã— 3 block operator matrices
13:00 – 14 :00		**Lunch break**
14 :00 – 15 :00		**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"
15:00 - 15:15	Fetouci Nora	Nonconvex perturbation for differential inclusions with pln functions
15:15 - 15:30	Naimi Mehdi	On The Numerical Radius of Foguel's Operator in Hilbert Spaces
15:30 - 15:45	Guerarra Sihem	On the solutions of the linear system AX=C, XB=D
15:45 - 16:00	Hachelfi Mouna	On the stabilization of linear porous thermoelastic with thermal and microthermal effects
16:00 - 16:15	Fethi Latti	A new natural metric

Session4: **Number theory**		
Chairmen: Soheyb Miles – Rihane Salah Eddine		
Google Meet Link: https://meet.google.com/oii-oiek-zao		
Hour	**Speaker**	**Presentation Title**
10:30 - 10:45	Ameur Zahra	With regard to the diophantine equation $\left(a^{n}-1\right)\left(b^{n}-1\right)=x^{2}$,
10:45 - 11:00	Batoul Aicha	Constacyclic codes of over finite fields
11:00 - 11:15	Mohammed Lamine Nadji	Congruential restrictions and multiplicities of parts
11:15 - 11:30	Milles Soheyb	Fixed point theorems for l-fuzzy monotone multifunctions
11:30 - 11:45	Barkat Omar	On the characterization of the compatibility property using traces of a given ternary relation
11:45 - 12:00	Rihane Salah eddine	The non-existence of diophantine quadruples of pell numbers
12:15 - 12:30	Ahmia Moussa	The two-motzkin like numbers and the infinite log-convexity
12:30 – 12:45		
12:45 – 13:00		
13:00 – 14:00	**Lunch break**	
14:00 – 15:00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15		
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00		

Session5: **Numerical Analysis**

Chairmen: **Haiour Mohamed – Rouibah Khaoula**

Google Meet Link: **https://meet.google.com/kbv-bimv-mdc**

Hour	Speaker	Presentation Title
10:30 - 10:45	Radhia Halilou	Finite difference method to numerically solving a stochastic evolution equations
10:45 - 11:00	Yadav Pooja	A wavelet based numerical scheme for solving fredholm integral equations of second kind
11:00 - 11:15	Slimane Leila	A mixed method for the unilateral contact problem in nearly incompressible elasticity
11:15 - 11:30	Guefassa Imane	A new conjugate gradient method for unconstrained optimization with application in mode function
11:30 - 11:45	Lachache mohamed	Theoretical and numerical results for the stagnant water pollution problem
11:45 - 12:00	Hassina Grar	New version of projection method to solve multi-valued variational inequalities problem
12:15 - 12:30	Khaldi Merzaka	Fixed-point method for the simplicial cone constrained convex quadratic optimization
12:30 – 12:45	Nesba Nour El Houda	Multi-grid Methods for The Solution of Non-linear Variational Inequalities
12:45 – 13:00	Amine Loumi	New stable algorithm for the hyperbolic equation
13:00 – 14:00	Lunch break	
14:00 – 15:00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15	Nassima Anane	On unique solvability and picard's iterative method for absolute value matrix equations
15:15 - 15:30	Chahinaz Hennous	Taylor collocation method for solving a second-order partial differential equation
15:30 - 15:45	Yakhlef othman	Un problème d'interaction fluide-structure d'évolution avec contact.

Session 6: Probability Theory + Statistics

Chairmen: Boularouk Yakoub – Boukaf Samira

Google Meet Link: https://meet.google.com/vey-duur-htc

Hour	Speaker	Presentation Title
10:30 - 10:45	Lahcene Selma	Detecting serial dependencies using Distance correlation
10:45 - 11:00	Ziane Yasmina	Comparison of K-Means Classification and and the classification algorithm for Density Estimation with Heavy-Tailed Data
11:00 - 11:15	Fatna Bensaber	Estimation results for Seasonal Process Owing Banach Autoregressive Representation
11:15 - 11:30	Helal Nacera	Kernel conditional quantile estimator under left truncation for functional regressors
11:30 - 11:45	El Alem Mohamed	Kernel density estimation for random left truncated and widely orthant dependent data
11:45 - 12:00	Naceri Amina	Local linear regression modelization when all variables are curves
12:15 - 12:30	Meziani Sara	M/M/1 Retrial Queue with Constant Policy and Exponentially Distributed Retrial Times in Heavy Traffic
12:30 – 12:45	Khouloud Makhlouf	Maximum Principle for spdes Games Under Model Uncertainty
12:45 – 13:00	Kedir Nassima Houda	Uniform consistency of LL-KNN estimator for semi functional partial linear regression
13:00 – 14:00		**Lunch break**
14:00 – 15:00		**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"
15:00 - 15:15	Bari Amina	Value-at-risk estimation methods
15:15 - 15:30	Toumi Samia	Simulation study of kernel copula estimation under censoring
15:30 - 15:45		
15:45 - 16:00		

Session 7:	**Mathematical Physics**

Chairmen: Nouicer Khireddine - Haouat Salah

Google Meet Link: https://meet.google.com/kbp-qmkd-sxo

Hour	Speaker	Presentation Title
10:30 - 10:45	Chahma Youssouf	Existence of infinitely many hight energy solutions for a fractional Schrödinger equation
10:45 - 11:00	Fekrache Imane	Graphical approach to the solution of a stationary Schrödinger differential equation in order to obtain the exact spectrum of bound states for a particle with position-dependent mass
11:00 - 11:15	Jain Manish	Coupled Fixed Point Results Establishing the Solution of an Elastic Beam Differential Equation in FMS
11:15 - 11:30	Berkani Amirouche	Global existence and general decay for the Euler-Bernoulli beam with memory
11:30 - 11:45	Abir Kehal	Effect of the electric field on the creation of fermions in (d+1)dimensional de-Sitter space-time
11:45 - 12:00	Kirat Soulaf	Noncommutative geometry and gauge invariance: Landau levels as application
12:15 - 12:30	Bouchema Dalila	Quantum Hamilton-Jacobi formalism or quasi-normal modes in de-Sitter space
12:30 - 12:45	Kehal Youcef	Neutron Stars in Teleparallel Scalar Tensor Theories
12:45 - 13:00	Bouchoul Sabrine	Numerical Solution of the Integral Equation for the Effective Potential Energy in a Dense Plasma
13:00 – 14:00	**Lunch break**	
14:00 – 15:00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15	Lekdim Billal	Stabilization of an Euler-Bernoulli beam with interior sources
15:15 - 15:30	Cheriet Loubna	Uniform semilassical approximation for the time-dependent particle number in an expanding universe
15:30 - 15:45	Ala eddine Draifia	Arbitrary decay of energy for a viscoelastic problem
15:45 - 16:00		

Session 8: Fractional Calculus + Integral Equations		
Chairmen: Abdelouahab Kadem – Fateh El Aggoune		
Google Meet Link: https://meet.google.com/fjp-oatx-fmd		

Hour	Speaker	Presentation Title
10:30 - 10:45	Chegloufa Naceur	Existence of pseudo s-asymptotically periodic î±-mild solution of class p for neutral fractional derivative delayed evolution equations
10:45 - 11:00	Benmehidi Hammou	Existence results for system of generalized hybrid pantograph equations
11:00 - 11:15	Boutiara Abdellatif	Existence theory of l^1-solutions for fractional differential equations
11:15 - 11:30	Amara Abdelkader	Existence, uniqueness and ulam stability results for a semilinear coupled system with riemann-liouville fractional derivatives
11:30 - 11:45	Beddani Moustafa	Numerical solution of fractional hopfield neural networks using reproducing kernel hilbert space method
11:45 - 12:00	Bouzeraieb Hayet	Numerical solution of volterra integral equations with two constant delays using taylor collocation method
12:15 - 12:30	Radjai Abir	Spectral solution method for non linear integral equations on unbounded domain
12:30 - 12:45	Medjoudja Meroua	Stability analysis and optimal control of marburg disease fractional order model
12:45 – 13:00	Chettouh Besma	Stability and hopf bifurcation of a fractional chaotic system
13:00 - 14:00	**Lunch break**	
14:00 – 15:00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15	Gaouir Sarra	The existence results of integral perturbation of moreau's sweeping processes
15:15 - 15:30		
15:30 - 15:45		
15:45 - 16:00		

Session 9: **Dynamical systems + Chaotic dynamic**
Chairmen: Okba Zehrour – Kaouache Smail

Google Meet Link: https://meet.google.com/jru-htcj-tfv

Hour	Speaker	Presentation Title
10:30 10:45	Louzzani Noura	A color image encryption scheme based on a novel chaos generating function
10:45 11:00	Elbetch Bilel	Coupled cooperative differential system: generalized logistic equation on networks
11:00 11:15	Meziane Mohammed	An epidemic model with time delay determined by the disease duration
11:15 11:30	Abdi Nadjiba	Differntial inclusion governed by time and state depandent maximal monotone operators
11:30 11:45	Abidat Nadjla	Modeling tuberculosis epidemics with vaccination.
11:45 12:00	Ghelmi Maroua	On limit cycles of piecewise differential systems formed by arbitrary linear systems and a class of quadratic systems
12:15 12:30	Melki Houdeifa	Limit cycles of a class of perturbed dierential systems via the first-order averaging method
12:30 - 12:45		
12:45 – 13:00		
13:00 - 14:00		**Lunch break**
14:00 – 15:00		**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"
15:00 - 15:15	Moulai-khatir Anes	On a bioeconomic fishery model with variable price
15:15 - 15:30	Tababouchet Ines	On the existence of algebraic limit cycles of some classes of kolmogorov systems.
15:30 - 15:45	Halla Sellami	The global dynamics of a class of piecewise liã©nard differential systems
15:45 - 16:00		

Session 10:   Ordinary differential equations

Chairmen: Halim Yacine – Bensayah Abdallah

Google Meet Link: https://meet.google.com/rtk-ofsq-qfk

Hour	Speaker	Presentation Title
10:30 - 10:45	Abada Nadjat	Existence results for some integro-differential problems by hilfer-katugampula fractional derivative
10:45 - 11:00	Bouakkaz Mouaad	Spectral homotopy analysis method to solve second order nonlinear ordinary differential equations
11:00 - 11:15	M'hamdi Mohammed Salah	Oscillation of a new generalized static mamnns with mixed delays
11:15 - 11:30	Dib Fatima	Periodic solutions for delay differential equations via variational method
11:30 - 11:45	Benhiouna Salah	Periodic solutions for nonlinear delay differential equations of third-order
11:45 - 12:00	Khemis Marwa	Some existence and uniqueness results of a neutral delay model of hematopoiesis with an iterative term
12:15 - 12:30	Baghdad Said	Existence and stability results for sequential fractional differential equations in banach spaces
12:30 - 12:45		
12:45 – 13:00		
13:00 - 14:00	**Lunch break**	
14:00 – 15:00	**Plenary Conference** **Prof. Saber Elaydi** (Trinity University, USA) "A Journey into Global Stability: From Monotone to Mixed Monotone and from autonomous to nonautonomous"	
15:00 - 15:15			
15:15 - 15:30			
15:30 - 15:45			
15:45 - 16:00			

Monday, November 27, 2023:

Plenary Conferences

08:30 - 09:15

Prof. **Pedro Lima** (Instituto Superior Técnico, University of Lisbon, Portugal)

Conference title:

Numerical solution of the stochastic neural field equation and applications to working memory

09:15 – 10:00

Prof. **Ali Moussaoui** (University of Tlemcen, Tlemcen, Algeria)

Conference title:

On some Bioeconomic Models in Fisheries

10:00 - 10:30

Coffee break

Google Meet Link: https://meet.google.com/qkg-ukcm-cqo

Session 1:   **Partial Differential Equations**
Chairmen: Boustila Nadjib –Arroud Chemseddine

Google Meet Link: https://meet.google.com/gpf-nzro-nfa

Hour	Speaker	Presentation Title
10:30 - 10:45	Djemai Samiha	Degenerate reaction-diffusion systems in mathematical biology
10:45 - 11:00	Bougherara Asma	Existence and non-existence results for the lane-Emden system with inverse square potentials
11:00 - 11:15	Guenoune Chahira	Existence and uniqueness results for a frictional contact problem
11:15 - 11:30	Kamouche Nesrine	General theory of laplace integral
11:30 - 11:45	Benhana Abdelkader Hakim	Multiplicity results for the quantum zakharov system perturbed by a general nonlinearity
11:45 - 12:00	Lacheheb Ilyes	On the cauchy problem for a viscoelastic mgt equation
12:15 - 12:30	Souad Ayadi	A fixed point approach for solving an elliptic boundary value problem involving an invertible laplacian operator on a bounded domain
12:30 - 13:30		**Lunch break**
13:30 - 13:45	Atmani Amel	Spatial analyticity of solutions to the kawahara equation
13:45 - 14:00	Antouri Zina	The influence of a nonlinear memory on the sigma-evolution models with two dissipative terms
14:00 - 14:15	Boukarou Aissa	Well-posedness for a korteweg-de vries-kawahara equation in sobolev and analytic spaces
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 2:	**Control and Optimisation + Game Theory + Economics**	
Chairmen: Boukhatala Kamal - Bencheikh Le Houcine Med Lamine		
Google Meet Link: https://meet.google.com/czm-rwau-qwf		

Hour	Speaker	Presentation Title
10:30 - 10:45	**Amel Bendali-braham**	**On edge b-coloring of a graph**
10:45 - 11:00	**Ramdani Zoubir**	**A steepest descent method for solving multiple objective optimization problems**
11:00 - 11:15	**Hadjelaoui Badreddine**	**A strong invariance result for semilinear quasi--autonomous differential inclusions in banach spaces**
11:15 - 11:30	**Touil Imene**	**An efficient feasible primal-dual interior-point method based on a various displacement step for semidefinite programming**
11:30 - 11:45	**Elaroussi Mohammed**	**On the impact of in-degree and out-degree on the complexity of argumentation frameworks problems**
11:45 - 12:00	**Khelladi Samia**	**Study of a new variant of the dai-liao type method based on two descent directions for nonlinear optimisation**
12:15 - 12:30	**Arfaoui Hassen**	**Stabilization of the saint-venant system by dirichlet boundary control**
12:30 - 13:30		**Lunch break**
13:30 - 13:45		
13:45 - 14:00		
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 3:   **Functional Analysis + Operator Theory**

Chairmen: Messaoud Maouni – Fateh El Aggoune

Google Meet Link: https://meet.google.com/ovf-tpcy-pay

Hour	Speaker	Presentation Title
10:30 - 10:45	Bezamia Sakina	Unitarily invariant norm inequalities for matrices
10:45 - 11:00	Hala Nadjet	Fixed point result for ï'-contractions in partial metric spaces
11:00 - 11:15	Mostefaoui Zahia	Generalized fixed point results of(\psi,\alpha,\beta)-weak contraction in partially ordered partial metric space with applications
11:15 - 11:30	Belabbaci Chafika	Jeribi essential spectrum of block operator matices
11:30 - 11:45	Aitemrar Chafika Amel	Lp estimates for rough hâˆ'admissible fourier integral operators and applications to the boundedness of bilinear operators
11:45 - 12:00	Aioula Soumia	On edge kidi+-critical graphs.
12:15 - 12:30	Benia yassine	On the regularity of the solution of non-homogeneous kdv equation
12:30 - 13:30		Lunch break
13:30 - 13:45	Menkad Safa	Some applications of reduced minimum modulus of operators
13:45 - 14:00	Laouadi Besma	Some results in fixed point theory with rational type inequality
14:00 - 14:15	Maroua Meneceur	Some fixed point results for feng-liu î¸-contractions in partial metric spaces with an application
14:15 - 14:30	Belkhiri Radja	Properties of reduced equations in linear matrix equation axb=c
14:30 - 14:45	Benhadjira Abderrahmane	Existence results for a problem differential fractional inclusion on an unbounded domain
14:45 - 15:00		

Session 4: Number theory

Chairmen: Lemnaour Noui – Bouchair Abderrahmène

Google Meet Link: https://meet.google.com/oii-oiek-zao

Hour	Speaker	Presentation Title
10:30 - 10:45	Meryem Bouzeraib	Convolutions between bernoulli and euler polynomials and symmetric functions
10:45 - 11:00	Ali Mohammad	The equivalence theorem for qtag-modules
11:00 - 11:15	Duc pham	Extend bertrand's postulate to sums of any primes
11:15 - 11:30	Chelgham Mourad	Generalization of catalan's identity for k-pell and k-pell-lucas numbers using elementary symmetric functions
11:30 - 11:45	Boualam Rezig	Log-concavity and strong q-log-convexity for some generalized triangular arrays
11:45 - 12:00	Berkane Djamel	On the primorial integer counting function
12:15 - 12:30	Tahmi Nabil	Some multiple dirichlet series of completely multiplicative arithmetic functions
12:30 - 13:30		**Lunch break**
13:30 - 13:45	Boubellouta Khadidja	Symmetric and generating functions of the products of some special numbers and polynomials
13:45 - 14:00	Mourad Yettou	An application of derivations on boolean lattices
14:00 - 14:15	Chahrazade Matmat	The z_2-index for s^1 x s^2
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 5:	Numerical Analysis

Chairmen: Arbi Adnène – Dalah Mohamed

Google Meet Link: https://meet.google.com/kbv-bimv-mdc

Hour	Speaker	Presentation Title
10:30 - 10:45	**Tabchouche Nesrine**	**Primal-dual interior point methods for sdlcp based on a new type of kernel functions**
10:45 - 11:00	**Bencheikh Abdelkrim**	**An efficient numerical technique for solving two-dimensional lane-emden problem**
11:00 - 11:15	**Chabekh Meriem**	**Discrete energy behavior of a damped bresse-timoshenko system**
11:15 - 11:30	**Arar Nouria**	**Galerkin approximation for wave equation by b-splines**
11:30 - 11:45	**Hallal Amina**	**Globally convergent of a conjugate gradient method**
11:45 - 12:00	**Louiza Derbal**	**Numerical analysis of infeasible interior point method**
12:15 - 12:30	**Mezzar Youssouf**	**On the computing of the power of a particular matrix**
12:30 - 13:30		**Lunch break**
13:30 - 13:45	**Boughafene Khedidja**	**Sensitivity analysis of an m/g/1 retrial queue using polynomial chaos expansion**
13:45 - 14:00	**Tayebi Soumia**	**The cubic b-spline method for fractional painlevã© and bagley-trovik equations in the caputo fractional sense**
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 6: Probability Theory + Statistics Chairmen: Kheladi Samia – Leulmi Asma **Google Meet Link:** https://meet.google.com/vey-duur-htc		
Hour	**Speaker**	**Presentation Title**
10:30 - 10:45	Aouri Atika	Analytical study of a spatiotemporal model involving location-dependent parameters
10:45 - 11:00	Boucetta Adel	Estimation accuracy of a functional nonparametric relative error regression estimator under left trunaction and right censoring
11:00 - 11:15	Nita Hadjer	Bounds for performance measures of a queuing system with dependent feedback
11:15 - 11:30	Chebbab Ikhlasse	Complete convergence for acceptable random variable with application to model linear
11:30 - 11:45	Merouan Torkia	Estimation of the conditional hazard function for functional dependent data
11:45 - 12:00	Cherifi omar el farouk	On the almost sure convergence of weighted sums of widely acceptable series and its applications to non parametric regression models
12:15 - 12:30	Boutarfa Leila	On the ergodicity condition of a queueing system with preemptive repeat policy
12:30 - 13:30	**Lunch break**	
13:30 - 13:45	Boudjerda Khawla	Power xgamma distribution: statistical properties, estimation methods and application
13:45 -14:00	Arezki Ouerdia	Prediction error of nonlinear spatial process
14:00 - 14:15	Madi Meriem	Rate of complete second-order moment convergence of kernel density function
14:15 - 14:30		
14:30 - 14:45		
14:45 – 15 :00		

Session 7:   Mathematical Physics

Chairmen: Pedro Lima - Merad Mahmoud

Google Meet Link: https://meet.google.com/kbp-qmkd-sxo

Hour	Speaker	Presentation Title
10:30 - 10:45	Smata Sihem	Elastic-viscoplastic materials with thermal effects and internal state variabl
10:45 - 11:00	Achabâ€¬â€□ â€ªhamid	Frictional contact problem with adhesion for thermo-electro viscoplastic materials with internal state variables.
11:00 - 11:15	Achour Imane	New analytical solutions for fragmentation equation via decomposition method with a monodisperse feed distribution.
11:15 - 11:30	Djerrar Ibtissem	A two dimensional inverse scattering problem with far-field data
11:30 - 11:45		
11:45 - 12:00		
12:15 - 12:30		
12:30 - 13:30	Lunch break	
13:30 - 13:45		
13:45 - 14:00		
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 8:   Fractional Calculus + Integral Equations

Chairmen: **Tidjani Menacer – Bensayah Abdallah**

Google Meet Link: https://meet.google.com/fjp-oatx-fmd

Hour	Speaker	Presentation Title
10:30 - 10:45	Benhamida Ouafaa	Existence,uniqueness and stability results for initial value problem of random fractional differential equations
10:45 - 11:00	Bettayeb Nawel	Existence and ulam-hyers-rassias stability of implicit neutral caputo tempered fractional differential equations with infinite delay
11:00 - 11:15	Ameur Habib	Fractional differential inclusions on closed sets
11:15 - 11:30	Djenina Noureddine	Fractional discrete covid-19 model with application
11:30 - 11:45	Mohamed Zellal	Fractional reaction-diffusion brusselator system by laplace adomian decomposition method
11:45 - 12:00	Bansatal Kattar enada	On integro-differential equations via meir-keeler condensing operators and the measure of noncompactness
12:15 - 12:30	Chetioui Lina	Resolution of fractional bratu-type equation using new iterative method
12:30 13:30	**Lunch break**	
13:30 - 13:45	Fakhreddine Seddiki	The existence and uniqueness of mild solutions for conformable fractional differential equations with non-instantaneous impulses
13:45 - 14:00	Serrai Hacen	Uniqueness and ulam–hyers stability results for ordinary version of non-local fractional langevin equation involving î¨-riemann-liouville derivative
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Session 9:   Dynamical systems + Chaotic dynamic
Chairmen: Benterki Rebiha – Houmor Tarek

Google Meet Link: https://meet.google.com/jru-htcj-tfv

Hour	Speaker	Presentation Title
10:30 - 10:45	Tabet Achref eddine	3-dimensional zero-hopf bifurcation via averaging theory of second order
10:45 - 11:00	Younsi Fatima-Zohra	Application of complex and dynamic system based multicriteria analysis as a tool for risk assessment
11:00 - 11:15	Bedjguelel Chabane	Bifurcation and stability analysis of a discrete-time model with double allee effect
11:15 - 11:30	Abdelkrim Kina	Explicit limit cycles for a class of non-linear planar polynomial differential systems
11:30 - 11:45	Benterki Rebiha	Global dynamics of planar piecewise quadratic bernoulli differential systems
11:45 - 12:00	Lamia Djebara	The synchronization scheme for a fractional-order chua system
12:15 - 12:30	Rezaiki Nabil	Limit cycles for a class of discontinuous differential systems
12:30 - 13:30		**Lunch break**
13:30 - 13:45	Bouaoud Safa	Practical h-stability of non-abstract dynamic equations and applications
13:45 - 14:00	Mansour Mouchira	Prox-regular perturbed sweeping processes
14:00 - 14:15	Hacene Gharout	Symmetrically decoupled three-dimensional map
14:15 - 14:30	Ait Sadi Nassima	The coexistance of measurable irrational eigenvalues and equicontinuity points for d-dimensional cellular automata
14:30 - 14:45	Rabia Afef Amina	On the periodic solutions for a class of duffing differential equations via averaging theory
14:45 - 15:00	Zaamoune faiza	Design a bifurcations and hiddin bifurcation in multispiral new chaotic attractor via saturated function series

Session 10:   Ordinary differential equations

Chairmen: Touafek Nouressadat - Akrour Youssouf

Google Meet Link: https://meet.google.com/rtk-ofsq-qfk

Hour	Speaker	Presentation Title
10:30 - 10:45	Imed Heddar	Lyapunov pairs for nonlinear evolutions inclusion in arbitrary banach spaces
10:45 - 11:00	Mohammed Asseddik Slimani	Existence results for systems of impulsive differential inclusions
11:00 - 11:15	Dahmani Abdelkader	Growth of solutions of n-th order linear differential equations around an isolated essential singularity
11:15 - 11:30	Boudefla Chahrazed	Controllability for second-order neutral evolution problems with state-dependent delay
11:30 - 11:45	Ikhlef Nadia	Existence of asymptotically almost automorphic mild solutions for integro-differential equations with impulsive in banach spaces
11:45 - 12:00	Boumaraf Siham	Existence of solutions for a fourth-order boundary value problem with nonlinear derivative dependence on the half-line via critical point theory
12:15 - 12:30	Bouakkaz Ahléme	Recent results on positive periodic solutions of an iterative nicholson blowflies differential equation with harvesting
12:30 - 13:30		**Lunch break**
13:30 - 13:45	Daira Ibtissem	On the stability problem in the sense of ulam on time scale
13:45 - 14:00		
14:00 - 14:15		
14:15 - 14:30		
14:30 - 14:45		
14:45 - 15:00		

Closing Ceremony

15:00 - 15:30

Google Meet Link: https://meet.google.com/qkg-ukcm-cqo