THE FIRST NATIONAL SEMINAR ON APPLIED MATHEMATICS (FNSAM'23)

December 15-16, 2023

Faculty of Sciences Dhar El Mahraz (FSDM)

Fez-Morocco

Planning

Friday 16 December 2023	
Time	**Videoconference room/Salle de visioconférence**
09 :00-09 :30	**Registration and welcome**
09 :30-10 :00	**Opening Ceremony**
10 :00- 11:00	**Speaker 1 : Pr. Elhoussine Azroul**	**Chair : Pr. A. Aberqi**
	Title : On some new models of nonlinear systems and Applications to biological problems
	Break

Session 1 : (Chair :Pr. E. Azroul)		Videoconference room/Salle de visioconférence
11 :30-11 :45	G. Diki	Analytical Solutions and Classification of Vesicle Motion and Deformation in Shear Flow : Uncovering New Tank-Treading Modes
11 :45-12 :00	M. Shimi	Non-negative solutions for a class of nonlocal problems
12 :00-12 :15	M. Srati	Nonlocal problems with Neumann and Robin boundary condition in fractional Musielak-Sobolev spaces
12 :15-12 :30	M. El Khalifi	SIRS epidemics with individual heterogeneity of immunity waning
		Break

Session 2 : (Chair : Pr. A. Khazari co-chair Pr. M. Elmassoudi) Optimal control		Room : S5
16 :00-16 :15	A. Ouza	Optimal Modeling In Enerrgy And Hydraulic Systems : Lagrangian Method
16 :15-16 :30	A. Tsouli	Sufficient and necessary conditions for exponential stabilization of distributed second order bilinear systems with varying time delay
16 : 30-16 :45	W. Ghandor	Regional controllability of fractional-order dynamical system with time-varying delays in the state
16 :45-17 :00	A. Ben Moussa	Reinforcement learning in optimization problems
17 :00-17 :15	Z. Ech-chaffani	Controllability of fractional-order neutral evolution equations and optimal control in Banach space
17 :15-17 :30	M. Chqondi	Stabilization for the nonlinear Schrödinger equation,
17 :30-17 :45	A. KHazari	Some Remarks About Gradient Controllability of Semi linear Systems :HUM Approach
17 :45-18 :00	T. Karite	Control problem of variable order fractional systems with Type IRiemann–Liouville derivative
Session 3 : (Chair : Pr. A. Barbara co-chair Pr. M. El Idrissi) PDEs		Room : S8
16 :00-16 :15	M. Bahadi	Nonlinear singular elliptic problem
16 :15-16 :30	A. Daife	Results for nonlinear parabolic systems via young measure
16 : 30-16 :45	M. El Fatry	Stefan problems with unbounded heat conduction and integrable data
16 :45-17 :00	R. Elarabi	Existence and regularity of capacity solution for a perturbed nonlinear coupled system
17 :00-17 :15	Z. Elhammoumi	Study of a nonlinear stochastic partial differential equation
17 :15-17 :30	Y. Ahakkoud	Existence and uniqueness of weak periodic solutions for a coupled parabolic-elliptic system
17 :30-17 :45	H. Riahi	Asymptotic behavior and existence of solutions for singular elliptic equations
17 :45-18 :00	S. Abaydi	Elliptic Equations With Robin Boundary Conditions: Renormalized Solutions and Numerical Simulation

Session 4 : (Chair : Pr. H. Zguitti Co-chair : Pr. M. Rossafi) Functional Analysis		Room :S9
16 :00-16 :15	Y. Bamouh	Inverse problem and its application to the heat equation
16 :15-16 :30	A. Ech-Chakouri	On Codiskcyclic Linear Relations
16 : 3016 :45	S. Hadji	Further Common Spectral Properties using v-Convergence
16 :45-17 :00	K. El-khalf	Spectral study of Gegenbauer polynomials
17 :00-17 :15	H. Labrigui	Some new results of operator frames for Hilbert C$*$-modules
17 :15-17 :30	B. Laghmam	further results of (b, c)-invertibility

Saturday 16 December 2023

Session 5 (Chair : Pr. O. Elbarrimi co-chair Pr. A. Aberqi) PDEs:Double phase Operator		Room : S8
09 :30-09 :45	M. Idrissi	Global existence and blow-up of solutions to a nonlocal parabolic equation with singular potential and logarithmic nonlinearity
09 :45-10 :00	B. El Alami	Étude de problème à double phase dans les espaces de sobolev généralisés
10 :00-10 :15	M. Knifda	On a class of double phase problem involving potentials terms
10 :15-10:30	A. Lamane	The Nehari manifold method and applications
10 :30-10 :45	R. Sersif	Infinitely many positive energy solutions for semilinear Neumann equations with critical Sobolev exponent and concave-convex nonlinearity
10 :45-11 :00	O. En-Feur	Renormalised non-negative solutions for the double phase Dirichlet problems with L1(W) data
Break		
Session 6 : (Chiar Pr. H. Yazough co-chair Pr. Z. Elmazgouri) Fixed point theory		Room : S9
09 :30-09 :45	M. A. Ighachane	New inequalities for (p, h)-convex functions
09 :45-10 :00	A. Jaid	New types of fixed points and common fixed points in Banach spaces
10 :00-10 :15	Y. Touail	Some fixed point results and an application in dynamic programming
10 :15-10:30	E. Rami	resolution of a nonlinear elliptic problem by adding a p-Laplacian operator weight and right hand measure
10 :30-10 :45	G. Erriahi Elidrissi	Strongly nonlinear periodic parabolic problem in Orlicz spaces
Break		
Session 7 (Chair Pr. Y. Akdim co-chair Pr. M. Mekkour) PDEs : Nonliear Systems		Room 10
09 :30-09 :45	H. El-Yahyaoui	Existence of solutions for a Class of Elliptic Systems in General Fractional Space
09 :45-10 :00	M. Masmodi	Multiple positive solutions for a fractional $p\&q$-Laplacian system with concave and critical nonlinearities
10 :00-10 :15	A. EL ourdani	On a Neumann Non Linear Evolution Reaction-Diffusion systems in Museilack spaces
10 :15-10:30	A. Ouaziz	Fractional Sobolev Spaces with Kernel Function on Compact Riemannian Manifolds
10 :30-10:45	M. Ouboufettal	Existence of solution for nonlinear elliptic inclusion problems with degenerate coercivity and L1- data.
10:45-11 :15	A. Sabri	Weak Solution for Nonlinear Fractional p(.)-Laplacian problem with Variable Order via Rothe's Time-Discretization Method
Break		
Seminar room/Salle de séminaire(Department of mathematics)		
11 :45- 12:45	Speaker 2 : Pr. Driss Meskine	Chair : Pr. J. Bennouna
	Title :	
Break		

Thesis defense

Time : From 15 :00
Doctoral student : Khadija MOUTAOUAKIL
Supervisor : Pr. Jaouad Bennouna
Thesis co-director : Pr. Mounir Mekkour

Closing ceremony