



**INTERNATIONAL WORKSHOP ON NUMERICAL ANALYSIS AND MODELING
DOCTORAL TRAINING SCHOOL (3rd EDITION)
"IWNAM: 3DTS25"**

April 7-11, 2025

Faculty of Sciences Dhar El Mehraz, Fez

Planning

Monday 07 April 2025

Time	Videoconference room/Salle de visioconférence	
08 :30-09 :00	Registration and welcome	
09 :00-10 :00	Opening Ceremony	
10 :00-11 :00	Course : Prof. Mohammed Seaid	Chair : Prof. E. Azroul, Prof. A. Azzouzi
	Title : Finite element methods for the wave equation	
11 :00-11 :30	Coffee break	
11 :30-12 :45	Course: Prof. Mohammed Seaid	Chair : Prof. E. Azroul, Prof. A. Azzouzi
	Title : Finite element methods for the wave equation	
13 :00-14:30	Course: Prof. Driss Yakoubi	Chair : Prof. M. Elmassoudi, Prof. L. Lafhim
	Title : Some numerical methods in fluid mechanics	

Tuesday 08 April 2025

09 :00-10 :45	Course : Prof. Driss Yakoubi	Chair : Prof. Y. Akdim, Prof. A. Barbara
	Title : Some numerical methods in fluid mechanics	
10 :45-12 :30	Course : Prof. Mohammed Seaid	Chair : Prof. A. Aberqi, Prof. M. Mekhour
	Title : Finite element methods for the wave equation	
12 :30– 13 :00	Break	
Session 1	Chair : Prof. M. Seaid & Prof. D. Yakoubi	Video-conference room
13:00-13 :15	S. Alqarouach	Modelling wave refraction-diffraction problems using time domain Bernstein-Bézier finite element solver
13 :15-13:30	B. Boutqilmount	A new radial basis function based on sinc function for data approximation
13:30-13:45	O. El Banne	Space-time Sinc collocation method for solving hyperbolic equations with variable coefficients
13:45-14:00	M. E. Bassir	Mesh Optimization Using Anisotropic A Posteriori Error Estimators for Interpolation
14:00-14:15	I. Bassir	Numerical Solution of Diffusion Problems with the Generalized Finite Element Method
Session 2	Chairs : Prof. A. Khazari & Prof. M. Serhani	Room : S2
13:00-13 :15	Y. Elkhalifi	A sufficient condition for Extinction and persistence of a Stochastic SIRS Model under Jump perturbation
13 :15-13:30	K. El Bakkioui	Influence of Stochastic Jumps on the Dynamics of SIRS Systems
13:30-13:45	A. Ouhmid	Modeling Memory Effects in Supply Chain Dynamics via Fractional Calculus Frameworks
13:45-14:00	M. Menchih	Chaotic and Hypercyclic Behavior of Certain Spatiotemporal Conformable PDEs
Session 3	Chairs : Prof. D. Kiouach & Prof. M. Shimi	Room : S5
13:00-13 :15	M. El Fatry	Renormalized Solutions for Elliptic Problems in Two-Component Domains with Unbounded Heat Conduction
13 :15-13:30	A. El-Allaly	Multiplicity of solutions for discrete boundary value problem involving the p-Laplacian
13:30-13:45	M. Knifda	A Study of Double Phase Problems with Potential Terms on a Complete Manifold
13:45-14:00	M. Berraho	An application of Los's Theorem

Wednesday 09 April 2025

09 :00 -10 :00	Course : Prof. Mohammed Seaid	Chair : Prof. J. Bennouna & Prof. O. El Barrimi
	Title : Finite element methods for the wave equation	
10 :00 -11 :00	Course : Prof. Driss Yakoubi	Chair : Prof. M. Elmassoudi & Prof. M. El Khalifi
	Title : Some numerical methods in fluid mechanics	
From 11 :00	Tribute to Professor J. Bennouna	

Thursday 10 April 2025

09 :00 – 11:00	Course : Prof. Mohamed Rhoudaf	Chair : Prof. E. Azroul & Prof. Y. Akdim
	Title : Finite-volume method in Orlicz spaces	
11 :00 – 12:30	Course : Prof. Mohamed Rhoudaf	Chair : Prof. L. Lafhim & Prof. H. Hamzaoui
	Title : Finite-volume method in Orlicz spaces	
12 :30 – 13 :00	Break	
Session 4	Chairs: Prof. A. Aberqi & Prof. M. Rhoudaf	Video-conference room
13:00-13:15	H. Aghdaoui	Optimal control for certain integer and fractional epidemiological models
13:15-13:30	A. Elaoula	Stabilization for a class of unbounded bilinear control system in Banach space
13:30-13:45	Z. Dardour	Necessary Optimality Conditions for Bilevel Programs: A New Approach
13:45-14:00	R. El Idrissi	Approximate Strong Optimality Conditions in Multiobjective Generalized Nash Equilibrium Problems
Session 5	Chairs : Prof. Y. Akdim & Prof. A. Barbara	Room : S5
13:00-13:15	E. Rami	Existence of a $w-\mu + g(-n; m)$ solution of a quasilinear elliptic system with weight
13:15-13:30	A. Elyamani	Study and modeling of the semiconductor optical amplifier using the finite difference method
13:30-13:45	M. Zakaria	On Galerkin spectral element method for solving Riesz fractional diffusion equation based on Legendre polynomials
13:45-14:00	M. Allou	Multiple solutions in fractional Musielak spaces for a class of nonlocal Kirchhoff systems
Session 6	Chairs : Prof. A. Azzouzi & Prof. O. Hammouti	Room : S8
13:00-13:15	B. ElAlami	Analysis of a singular double-phase equation with homogeneous Choquard term
13:15-13:30	O. El Alami	Multiple solutions for a Neumann problem involving the fractional $p(\cdot, \cdot)$ -Laplacian
13:30-13:45	A. EL Ouardani	On a Neumann parabolic systems with singular reaction-diffusion applied in Quenching in Musielak spaces
13:45-14:00	Y. Ahakkoud	Renormalised solutions for a nonlinear elliptic systems in Musielak-Orlicz spaces
Session 7	Chairs: Prof. M. mekkour & Prof. A. Zafrar	Room : S9
13:00-13:15	K. Fenza	On the stabilization in finite time of a class of linear systems under multiplicative or additive controls
13:15-13:30	Z. Ech-chaffani	Existence of Solutions and Controllability for Neutral Semilinear Evolution Equations
13:30-13:45	W. Ghandor	The controllability of fractional differential system with state and control delay by using Riemann-Liouville fractional derivatives
13:45-14:00	A. BEN MOUSSA	Deep Reinforcement Learning for Autonomous Driving : Optimization Strategies and Methodologies

Friday 11 April 2025

09 :00 – 11:00	Course : Prof. Ahmed Aberqi	Chairs: E. Azroul & M. Ait Hammou
	Title : Numerical solution of parabolic equations with lower term in Musielak spaces	
11 :00 – 12 :30	Course : Prof. Mohamed Rhoudaf	Chair : M. Elmassoudi & M. Mekkour
	Title : Finite-volume method in Orlicz spaces	

Saturday 12 April 2025

09 :00 – 11:00	Round table
11:30– 12:00	Closing