Laboratoire Modélisation Mathématique & Simulation Numérique
Université Badji Mokhtar-Annaba

MMRE'2024 Workshop Program, November, 4-6 2024

	Monday 04th November	Tuesday 05th November	Wednesday 06th November Industrial Day
08:00	**Registration**		9:00-12:00
08:30	**Open Ceremony**		
09:00	*First Plenary Conference (in person)* **Pr. Abdennebi Omrane** UMR EcoFoG, French Guiana University "Mathematical Study of Some Models in Ecology and Agro Ecology"	*Fifth Plenary Conference (online)* **Pr. Tauber Pierre Clovis** INSERM, Tours- France "Vector-Valued Medical Image Processing"	**Presentations (9:00-10:00)** **Tarek Khatir** UBM-Annaba **Ahmed Bougherira** Sonelgaz-Annaba **Aymen Hadji,** Pharmacy, Batna2 **AbdelAli Merah,** Pharmacy UBMA
09:45	**Coffee Break and Poster Session 1**	**Coffee Break and Poster Session 2**	**Panel Discussion** (10:00-11:30) **Amel Benabda** ENIT-Tunis **Nouredine Benhamidouche** Msila University **Salah Bouhouche** Inov Industrie 4 **Lamri Bouyoucef** Ferrovial **Djamel Cheriet** USTHB- Alger **Boudjema Radouane** Blida University **Workshop Closing**
10:15	**Contributed Talks Session 1** **Toufik BOUBEHZIZ**, Grenoble University **Hanifa MOKHTARI**, Tizi Ouzou University **Aicha KHADIDJA**, Tlemcen University **Nawel KERRICHE**, NS of Statistics & Applied Economics, Algiers	**Contributed Talks Session 3** **Bilal BASTI**, M'sila University **Salah BEN MAHMOUD**, M'sila University **Djamel ZERROUKI**, Tizi Ouzou University	
11:30	*Second Plenary Conference (online)* **Pr. Montaz Ali** Witwatersrand University, Johannesburg "Renewable Energies & Applications"	*Sixth Plenary Conference (in person)* **Pr. Mohammed Hachama** NHS of Mathematics,Sidi Abdellah,Algiers "Nonlocal Approaches in Image Processing"	
12:00	LUNCH	LUNCH	LUNCH
13:30	*Third Plenary Conference (online)* **Pr. Enrique ZUAZUA** Universität Erlangen-Nürnberg (FAU) Germany "Control and Machine Learning"	**Contributed Talks Session 4** **Faris AISSAOUI**, C.U. de Mila **Sabrina BEN HANACHI**, SoukAhras Univ. **Mohamed LACHACHE**, LAM^{2}SIN-UBMA **Abdelkrim ATAILIA**, LAM^{2}SIN-UBMA	
14:15	**Contributed Talks Session 2** **Chiheb Eddine OUALHA**, LAM^{2}SIN-UBMA **Nesrine GOURI**, LAM^{2}SIN-UBM-Annaba **Meriem BOUSSEBHA**, LAM^{2}SIN-UBM-Annaba **Kahina BEDOUHENE**, Tizi Ouzou University	*Seventh Plenary Conference (online* **Pr. A. Nicola DI TEODORO COTUA** College of Sc. and Engineering, Ecuador "Two-Sided Fractional Monogenic Functions"	
16:00	*Fourth Plenary Conference (online)* **Pr. Anotida MADZVAMUSE** British Columbia University, Canada "Analysis and Simulations of Bulk-Surface Reaction-Diffusion systems, Cell Motility Applications"	*Eighth Plenary Conference (online)* **Dr. Jorge HONLES** National Cancer Institute, Lima, Peru "Modeling Pesticide Pollution Risk at a Small Geographic Scale and Relationship with Human Health: case of Peru"	

Location: the workshop work will take place in SIDI AMAR, Amphi Guellati

Oral Presentations

Speaker and Institution	Presentation Title
TOUFIK BOUBEHZIZ, Grenoble University	A Dynamic Reduced Order Model for a liquid-core capsule in flow simulation
SABRINA BEN HANACHI, SoukAhras University	A New Class of Optimization Methods based on Coefficient Conjugate Gradient
MERIEM BOUSSEBHA, LAM²SIN-UBMA	A Study of a three dimensional coupled reaction diffusion model for tumor growth
HANIFA MOKHTARI, Tizi Ouzou University.	Asymptotic analysis of the effect of a thin layer on the deformation of a Kirchhoff-Love plate with # thickness
BILAL BASTI, M'sila University	Harnessing Fractional Operators for Epidemic Management: Mathematical Perspectives
ABDELKRIM ATAILIA, LAM2SIN-UBM-Annaba	Modeling and Well-Posedness of a Two-Surface Contact Problem in Contact Mechanics
AICHA KHADIDJA, Tlemcen Univ	Modeling the life cycle dynamics of the European Grapevine moth using a juvenile-adult population approach
CHIHEB EDDINE OUALHA, LAM²SIN-UBMA	Multi-Task Convolutional Neural Networks for Damage Prediction on Solar Panels
SALAH BEN MAHMOUD, M'sila University	New characterizations of variable Besov Spaces
NAWEL KERRICHE, National School of Statistics and Applied Economics	Scenarios Analysis of Natural Gas demand in Algeria and possible impact on exported volumes
KAHINA BEDOUHENE, Tizi Ouzou University	Semi parametric Estimation by Circular VON MISES KERNEL
NESRINE GOURI, LAM²SIN-UBMA	The vibration Monitoring and fault Diagnosis of Rotating Machines
Mohamed LACHACHE, LAM²SIN-UBM-Annaba	Theoretical and Numerical Results for the 2-D Regularized Saint-Venant system Coupled with the T-Eq.
Faris AISSAOUI, C.U. de Mila	WLS estimator for tvAR(p) processes.
DJAMEL ZERROUKI, Tizi Ouzou University	Improved quadratic convex under estimator for univariate non convex functions

Posters

Poster Session 1	Poster Session 2
Mohamed KOUADRIA, Generalized Beta-new XLindley distribution: Mathematical properties and application in medicine	Adel DELIOU, Study of the efficiency of a solar still
Radhia HALILOU, Mathematical Study of Stochastic Partial Differential Equation	Bahia HADJ ALI, Luenberger Observer-Based Control for Solar Trackers
Hanane LAKIKZA, Numerical Results for nonlinear interface problem Modeled a biofilm growth model	Rabah NEBBATI, Modeling of a double-tube, counter-current heat exchanger Using the "al2o3+water" Nanofluid
Lina DOUDI, Enhanced Power Flow Management in Renewable Hybrid Energy Systems	Abir CHOUCHE, Performance Analysis of Magnetic Materials in PMSMs
Mebarka BAYOUD, The ability of bio-inspired methods in finding the Maximum power point in a non-basic shading case	Soumaya DJEKRIF, Enhancement of GAZ Production, Optimization Techniques
Naim BOUDJELIDA, Exploring the Squared Xlindley Distribution: enhanced statistical modeling and estimation techniques with application to covid-19 data	Mohamed Cherif BELLILI, Stability and Bifurcation Analysis in Discrete-time Sirs Model based on covid-19 data from Algeria
Ouafa AMIRA, an Improved Weighted Routing for Napsule Network	

Industrial Presentations

1- Artificial Intelligence and Applications, T. Khadir & A. Boughrira

2- New Advances in Pharmacolgy, A. Merah & A. Hadji