

## **DETAILED MATHEMATICS PROGRAM**

- **Probability and Statistics**
- **Applied Algebra and Geometry**

**MPSA**

N°	LAST NAME	NAME	CO-AUTHORS	TITLE OF PRESENTATION	ORAL /POSTER	CODE	SESSION
1	LAALA	Barkahoum		An overview on modeling techniques and the accuracy measures with an application example	Oral	MPSA-001	ORAL SESSION 5
2	CHERGUI	Rachid		Aperçu de la cryptographie et du codage de Lucas	Oral	MPSA-002	Oral Session 2
3	CHETTOUH	Raouda		The Relation Between the Numerical Range of Tow Sub-Self-Adjoint Operators	Oral	MPSA-003	ORAL SESSION 3
4	BENAOUDA	Oum Elkheir		Asymptotic Normality in Nonparametric Regression Quantile Estimation for Dependent Functional Data under Random Censorship	Oral	MPSA-004	
5	BOUKELOUA	Mohamed		Divergences based Bayesian estimation with censored data	Oral	MPSA-005	
6	BOUSTILA	Rania	Leulmi Sarra	Asymptotic normality of the kernel estimator of the conditional distribution for functional and right-censored data	Oral	MPSA-006	
7	CHEBEL	Zoheir		Hom-action and Hom-Bi-action With Applications	Oral	MPSA-007	ORAL SESSION 4
8	HAMIMES	Ahmed	DJAFRI Houria	The Bayes factor for evaluating disparities in cure percentages within survival curves	Oral	MPSA-008	
9	LABIOD	Imene		Generating functions of the triple product of Padovan number with square well-known Gaussian numbers	Oral	MPSA-009	
10	MEKKI	Soundes	Labdaoui Ahlam	Comparative Analysis of Autoencoder Variants for Image Reconstruction Using the Olivetti Face Dataset	Oral	MPSA-010	
11	MERAI	Manal El Boutoul	DJAFRI Houria	The strong consistency of the kernel conditional distribution estimator	Oral	MPSA-011	

12	<b>MIME</b>	<b>Rania</b>	F. BOUDAUD	On the realizability of matrices over $SL_2(\mathbb{R}[x_1^{\pm}, \dots, x_k^{\pm}])$	Oral	MPSA-O12	ORAL SESSION 5
13	<b>MOUSSAOUI</b>	<b>Khadidja</b>	Benjamin Earp-Lynch , Simon Earp-Lynch , Omar KIHHEL and Abdelmoumene ZEKIRI	ON CERTAIN $D(9)$ AND $D(64)$ DIOPHANTINE TRIPLES	Oral	MPSA-O13	
14	<b>RALEM</b>	<b>Sabrina</b>	ASMA Maamar and LIMAM Kheira	Solving a family of transmission boundary problems governed by complete elliptic differential equations in UMD spaces	Oral	MPSA-O14	
15	<b>SAIHI</b>	<b>Ferial</b>	Mohamed Boukeloua and Sarra Leulmi	Asymptotic Normality of a Kernel Conditional Quantile Estimator	Oral	MPSA-O15	
16	<b>SEFFAH</b>	<b>Safia</b>	S.ERihane and Alain Togbé	Solving the Diophantine Equation $F_n^{(k)} L_m^{(k)} = (a(10^l - 1))/9$	Oral	MPSA-O16	
17	<b>BOULAHIA</b>	<b>Abdelmoumene</b>		Reliability of $(n, f, k)$ : F system with sparse $d$ for Markov-dependent components	Poster	MPSA-P01	
18	<b>LABIOD</b>	<b>Imane</b>		Generating functions of the triple product of Padovan number with square well-known Gaussian numbers	Poster	MPSA-P02	
19	<b>LAHCENE</b>	<b>Selma</b>		Distance Correlation : A Powerful tool for Revealing Hidden Dependencies in Time Series	Poster	MPSA-P03	
20	<b>SACI</b>	<b>Marwa</b>	Abdelhak Djebabla	Exponential stabilization of the linear porous elastic materials with microtemperatures effects	Poster	MPSA-P04	
21	<b>TILBI</b>	<b>Djahida</b>		Bayesian and Non Bayesian Analysis of the New One Parameter Model under Right Censored Data	Poster	MPSA-P05	
22	<b>BELAKHDAR</b>	<b>Sara</b>	Merabet Hayet	Comparison of predictive probabilities in fully Bayesian and hybrid frequentist Bayesian approach.	Poster	MPSA-P06	POSTER SESSION 2
23	<b>BOUCHOUL</b>	<b>Melissa</b>	Leulmi Sarra	Estimation non paramétrique de la fonction de régression relative pour des données censurées.	Poster	MPSA-P07	

24	<b>BOULOUDENE</b>	<b>Moussa</b>	Soheir Belaloui	Bounds for Consecutive k-out-of-n: G Systems with Dependent Components	Poster	MPSA-P08	
25	<b>KIMOUCHE</b>	<b>Karima</b>		Statistical analysis of spatio-temporal bilinear processes	Poster	MPSA-P09	

## **DETAILED MATHEMATICS PROGRAM**

- **Numerical ODEs and Numerical PDEs (inc. BVPs)**
  - **Fractional Calculus and its Applications**
- **Mathematical modelling in Engineering and Transport Phenomena**
  - **Scientific Computing and Algorithms**
  - **Dynamical Systems and Algorithms**
- **Complexity Theory, Neural Networks and Fuzzy Systems**
  - **Transport Phenomena**

**MNF**

N°	LAST NAME	NAME	CO-AUTHORS	TITLE OF PRESENTATION	ORAL / POSTER	CODE	SESSION
1	HADJ	Abdelhak		Recovering Steklov Parameters and Boundary Conditions in the Forth Ortler Partial Differential Equation Using Incomplete Cauchy Data.	Oral	MNF-O01	ORAL SESSION 1
2	HAMMOU	Bouthina Sabah	Ameur Memou	A study of fractional diffusion equation with non-local conditions involving the Caputo derivatives	Oral	MNF-O02	
3	ABID.CHAREF	Okba	BOUAOUN. Mayada	Min-Max Optimal Design of a Non-Conventional Dynamic Absorber System with Negative Stiffness for Vibration Control of Damped Structures	Oral	MNF-O03	
4	ARAR	Nouria		Operational Matrix and Collocation Techniques for Fractional Volterra Equations Using Generalized Lucas Polynomials	Oral	MNF-O04	ORAL SESSION 2
5	BELLAMOUCHE	Chahinez		Existence of positive solution for some nonlocal elliptic problem	Oral	MNF-O05	
6	BENDAAS	Yasmina	Mohamed Achache	A polynomial-time interior-point algorithm for solving canonical convex quadratic semidefinite optimization	Oral	MNF-O06	
7	CHABANE	Khaoula	A. Mansour	A new class sub-self-adjoint operator in Hilbert spaces	Oral	MNF-O08	ORAL SESSION 3
08	CHETTIH	Nadjet	Labdaoui Ahlam	RFE-SVM: An Approach to Enhancing Support Vector Machine Performance through Recursive Feature Elimination	Oral	MNF-O09	
09	DALAH	Mohamed	Ammar Derbazi	Numerical Solution of the 2D Wave Equation Using Higher-Order Finite Differences: Codes Matlab	Oral	MNF-O10	

10	MEZHOUD	Kenza Assia	A.Kharoua, Z.Mohdeb	Asymptotic study of Local linear predictor for time series	Oral	MNF-O11	ORAL SESSION 4
11	SAADI	Faiza		An easy enhancement in the efficiency of the Nguyen-Widrow initialization method in neural networks	Oral	MNF-O12	
12	ZELMATI	Djamel	Ghelloudj Oualid and Harouz Riad	Probability of Failure of a Corroded Pipeline Considering Correlations Between Random Variables	Oral	MNF-O13	
13	BENOTMANE	Karima	Omar KHOLAI, Mourad CHEKIRED	Core Annular Flow investigated by in-House CFD Solver	Poster	MNF-P01	POSTER SESSION 1
14	BENRABAH	Sakina	Samir Ladaci and Samir Benhadid	Sliding Mode Stabilization for a class of fractional-order chaotic systems	Poster	MNF-P02	
15	BENZATAT	Rim	Hamid Benseridi and Mourad Dilm	Viscoelastic problem with Tresca's friction law	Poster	MNF-P03	
16	BERGUELLAH	Nour elhouda		General study of a modified chaotic model	Poster	MNF-P04	
17	BOULEHAM	Faiza	TENIOU NIHED	REGULARIZATION METHOD FOR A CLASS OF INVERSE PROBLEMS OF PARABOLIC DIFFERENTIAL OPERATOR EQUATION	Poster	MNF-P05	
18	FEKRACHE	Zine Eddine	Houmor Tarek	Hopf bifurcation in a predator-prey biological economic system with a nonlinear harvesting rate.	Poster	MNF-P06	
19	HANECHÉ	Nabil		Complex dynamics and chaos in a fractional-order discrete-time SIS epidemic model	Poster	MNF-P07	POSTER SESSION 2
20	LAKHDAR	Asmaa		Comparative Analysis of Electromagnetic Fields in Flat vs. Curved Spacetime Using Maxwell's Equations	Poster	MNF-P08	
21	MEROUDJ	Souad	ZERIMECHE Hadjer, HOUMOR tarek	Finite-Time Projective Synchronization of Fractional-Order Chaotic Systems with Different Structures	Poster	MNF-P09	

22	ZAAMOUNE	Faiza		A Novel 4D Hyperchaotic System Without Equilibrium Points.	Poster	MNF-P10	
23	ZEDDAM	Loukmane	A. Kirad F. Madani	Effect of a Sudden Torsional Load on a Homogeneous Elastic Half-Space	Poster	MNF-P11	
24	MATALLAH	Hana	Maouni Mesouad, Lekhal Hakim	Fractional Derivative Equation with Application in Image Processing	POSTER	MNF-P12	
25	BOUDJEDOUR	ALAOUA	Dalah Mohamed	Finite Difference method for Solving Heat Equation: Codes Matlab	Poster	MNF-P13	