



-JIAMA'23 Program -

**1^{ère} Journée sur
l'Intelligence Artificielle & Mathématiques Appliquées
04 Mai 2023, ENSA Al-Hoceïma**

**Organisée par
l'École Nationale des Sciences Appliquées d'Al Hoceïma
en collaboration avec ses partenaires**



JIAMA'23 Program	
Sessions	Links Google Meet
Plenary conference 1	https://meet.google.com/tke-kodt-oqa
Plenary conference 2	https://meet.google.com/tke-kodt-oqa
Plenary conference 3	https://meet.google.com/ubj-tcgr-ibw
Plenary conference 4	https://meet.google.com/ubj-tcgr-ibw

Topic 1 : Applied Mathematics	
15h – 17h30	
Face to Face 1	https://meet.google.com/opj-riqh-pqb
Face to Face 2	https://meet.google.com/tjo-qgmq-uci
Online 1	https://meet.google.com/xzh-dbaa-fwc
Online 2	https://meet.google.com/nhp-madd-ahr
Online 3	https://meet.google.com/mjb-qutg-gqz
Online 4	https://meet.google.com/nwc-dsvu-eej

Topic 2: Artificial Intelligence	
15h – 17h30	
Face to Face	http://meet.google.com/xiy-vejy-wyb
Online 1	https://meet.google.com/iqx-bfme-rqp
Online 2	https://meet.google.com/iws-ahrh-iqx
Online 3	https://meet.google.com/zvv-nogc-ngv

Jeudi 04 mai 2023

8h00 - 9h00	Registration
9h00 - 09h30	Welcome and opening Ceremony (Amphi B)
09h35 - 10h20	Plenary conference 1: Chairman: A. BOUJRAF <i>Overview of classification models in the case of supervised learning Modelling and Limits.</i> Pr. Abdellatif EL AFIA ENSIAS, Mohammed V University https://meet.google.com/tke-kodt-oqa
10h20 - 10h45	Welcome Coffee
10h45 - 11h35	Plenary conference 2: Chairman: A. MOUSSAID <i>Antitumorale : de la Bifurcation de Hopf à la Bifurcation de Turing</i> Pr. Radouane YAFIA Faculty of Sciences of Kenitra, Ibn Tofail University https://meet.google.com/tke-kodt-oqa
11h35 - 12h25	Plenary conference 3: Chairman: M. ADDAM / Y. ABOUELHANOUNE <i>Radial Basis Functions and Their Application to solve Partial Differential Equations</i> Pr. Ahmed NAJI FST Tangier, Abdelmalek Essaadi University https://meet.google.com/ubj-tcgr-ibw
12h25 - 13h20	Plenary conference 4: Chairman: I. BADI <i>Simulation–Artificial Intelligence in Computational Fluid Dynamics</i> Prof. Rachid BANNARI ENSA of Kenitra, Ibn Tofail University https://meet.google.com/ubj-tcgr-ibw
13h20-15h	Lunch Break

Session Orale n° 1**Amphi B
Face to Face****15h à 17h30***Google Meet link:* <https://meet.google.com/opj-rqjh-pqb>

Topic 1: Applied Mathematics		Chairman: A. TOUKMATI / N. MORADI
15h	ID: 6015 On a class of Steklov problems involving $(p(x), q(x))$ Laplacian Abdessamad LAKHDI	
15h15	ID: 3957 NEW INEQUALITIES FOR (p, h) -CONVEX FUNCTIONS FOR τ -MEASURABLE OPERATORS Mohammed BOUCHANGOUR	
15h30	ID: 7101 Superconvergent Nystrom and Degenerate Kernel Methods for Integro-Differential Equations Abdelmonaim SAOU	
15h45	ID: 7112 Domain decomposition preconditioner for a higher order compact difference discretization of a plate vibrations problem Yassin KHALI	
16h	ID: 6489 Tripled system of nonlinear fractional Langevin equations with nonseparated integral boundary conditions Lahcen IBNELAZYZ	
Chairman: Y. ABOU EL HANOUNE / M. ADDAM		
16h15	ID: 7125 Vibration and stability analysis of composite conical nano-shells based on nonlocal elasticity theory and Haar wavelet method Abdellhadi AZRAR	
16h30	ID: 7116 A novel quantum information based computational approximate solution of the Schrodinger partial differential equation Imane EL HADOUTI	
17h	ID: 7127 Optimisation du problème de tournées de véhicules pour la valorisation des déchets solides au Maroc HANANE AIT ELASRI	
17h15	ID: 7169 Fractional Kirchhoff-type equations driven by an anisotropic operator Abdelilah AZGHAY	
17h30-18h	Coffee Break and Poster Session	

Session Orale n° 2**Salle 4****15h à 17h30****Face to Face**Google Meet link: <https://meet.google.com/tjo-qgmq-uci>**Topic1: Applied Mathematics****Chairman: M. KACHAD & S. KHALLOUQ****15h****ID: 7120**
Finite Volume Method for The Linearized Navier-Stokes Equation
Youssef AMIROUNE**15h15****ID: 7107**
Etude d'une nouvelle propriété de type Drazin-Ruston dans la théorie de Fredholm
relativement à un homomorphisme entre deux algèbres de Banach
Noureddine EL AMRI**15h30****ID: 9592**
Finite element modeling of FRP-confined concrete under cyclic loading
Soufiane EL YASSARI**15h45****ID: 0490**
Conformal Perfectly Matched Layers for Bernstein-Bezier FE Modelling of Bernhoff
Equation
Saloua EL MARRI**16h****ID: 7122**
Méthode des Volumes Finies et Éléments Finis pour la Résolution d'Équation de
Stokes
Mehdi OUKIF**Chairman: Y. ZAHOUAN & A. BAKKALI****16h15****ID: 7100**
Investigation of Transient Nonlinear Heat Transfer Using
Mohamed TAIBI**16h30****ID: 7103**
Quantum Fisher information matrix and quantum Cramer-Raobound
Souhaila BUKBECH**17h****ID: 7124**
Smoothing splines Galerkin approximation for solving Black-Scholes PDE
Salima BELKOUZ**17h15****ID: 6600**
Transferts couplée d'humidité, de chaleur et de soluté dans la pierre calcarénite
Mohammed HRAITA**17h30-18h****Coffee Break and Poster Session**

Session Orale n° 1 **ONLINE** **15h à 17h30**

Google Meet link: <https://meet.google.com/xzh-dbaa-fwc>

Topic1: Applied Mathematics

Chairman: A. Boujraf/M. TAHRICHI/ C. ALLOUCH

15h	ID: 3810 An continuous SIR mathematical model of the spread of infectious illnesses that takes human immunity into account Issam Khaloufi
15h20	ID: 9795 An entropy solutions for some nonlinear elliptic problem in Musielak-Orlicz spaces Ouidad Azraibi
15h40	ID: 7104 La consolidation unidimensionnelle des différents types des sols Hajar Azouagh
16h	ID: 369 A novel approach based on genetic algorithms and parallel optimization for large industrial problems Saad Hassouna
16h20	ID: 7857 Time-Schwarz DDM applied to a parabolic partial differential equation Abdelhalim Ben Bouzid
16h40	ID: 7108 Impact of support size in CSRBF function interpolation for BEMD decomposition Mohammed ARRAZAKI
17h	ID: 7111 The thermistor problem : existence and numerical approximation Hajar Talbi

Session Orale n° 2

ONLINE

15h à 17h30

Google Meet link: <https://meet.google.com/nhp-madd-ahr>

Topic 1
Applied Mathematics

Chairman: M. MASSAR / A. SALMANI/ M. ALLAoui

15h	ID: 7105 Numerical simulation of pavement-tire interaction: investigating the effects of multiple parameters... Aziza El Ghoulbzouri
15h20	ID: 7113 Modeling and analysis of the effects of government programs on the prevention of unemployment Mohamed ELYAHYAoui
15h40	ID: 7114 Existence and characterization of a bilinear spatial control of the wave equation Abderrahman AIT AADI
16h	ID: 7115 Meshless method for the numerical solution of fractional stochastic integro-differential equations based on the moving least squares technique ZAHRA EL MAJOUTI
16h20	ID: 7117 A numerical method for thin plate deformation problem using γ -Tensorial Spline Galerkin Approximation Ahmed BEN ABDELLAH
16h40	ID: 7119 Discrete Legendre modified projection-type methods for Hammerstein integral equations Hamza BOUDA

Session Orale n° 3**ONLINE****15h à 17h30***Google Meet link:* <https://meet.google.com/mjb-qutg-gqz>**Topic 1: Applied Mathematics****Chairman : A. MOUSSAID / F. MORADI**

15h	ID: 7106 Dynamic response of High-speed railway bridges: A study on effects Stiffness of coupling connection and elastic bearing Abderrachid AFRAS
15h20	ID: 9921 Analyse de réduction dimensionnelle d'une plaque mince élastique tridimensionnelle renforcée de rubans fractals Jamal El Amrani
15h40	ID: 7121 Fast Convergence rates of Smooth Convex Functions using Inertial Dynamics with Tikhonov Regularization, Time Scaling, and Hessian-Driven Damping Akram CHAHID BAGY
16h	ID: 9120 Integration of Lean Six Sigma and industry 4.0 to improve production performance Aziz EL MAMOUNI
16h20	ID: 7128 Spectral Methods for nonlinear integral equation with superconvergent degenerate kernel Mohamed Mohamed ARRAI
16h40	ID: 2592 A meshfree approach based on TSDT theory for the analysis of carbon nanotube reinforced ceramic Youssef BOUCHAOUATA
17h	ID: 7132 Etude multi-échelle de l'érosion de contact solide/fluide au sein des ouvrages hydrauliques Assia HAIMOUD

Session Orale n° 4**ONLINE****15h à 17h30***Google Meet link:* <https://meet.google.com/nwc-dsvu-eej>**Topic 1 : Applied Mathematics****Chairman: A. AMMAR / A. RIKOUANE**

15h	ID: 7963 Quasi Efficient Solutions in a Nonsmooth Multiobjective Bilevel Programming Problem Mohsine Jennane
15h20	ID: 3125 Numerical modeling of thermodynamic properties of some complex fluids using artificiel neural networks Rachid Aitbelale
15h40	ID: 7118 Numerical Solution of Transverse Electromagnetic Wave Problems using Tensorial Spline FEM Imad El BARKANI
16h	ID: 9922 Homotopy Sumudu transform method for solving fractional-order epidemic model Aadil LAHROUZ
16h20	ID: 9923 Implementation and Convergence Analysis of Homotopy Perturbation Coupled with Sumudu Transform to Construct Solutions of Fractional PDEs Kamal AIT TOUCHENT
16h40	ID: 9924 A hybrid Finite Element-Meshfree method for numerical simulation of FGM structures Redouane Elkadmir

Session Orale n° 1

**Amphi A
Face to Face**

15h à 17h30

Google Meet link: <http://meet.google.com/xiy-vejy-wyb>

Topic 2 : Artificial Intelligence

Chairman: I. BADI / A. L. EL IDRISI / A. ZANNOU

15h	ID: 2025 <i>Blockchain pour l'éducation</i> Adil Marouan
15h20	ID: 3224 <i>Une étude comparative des algorithmes de classification pour guider les élèves marocains du collège,</i> Morad Badrani
15h40	ID: 4353 <i>Machine learning-based Ransomware detection: Review and challenges</i> Omar CHAIEB
16h	ID: 7109 <i>Smart Farming in Morocco: Advantages and Challenges</i> ABDELALI EL IDRISI
16h20	ID: 1287 <i>Multi-domaines Dataset pour l'analyse des sentiments Marocains dans les réseaux sociaux</i> Sara El Ouahabi
16h40	ID: 7123 <i>Quantum Codes from Cyclic Codes over Non Local Rings</i> Noureddine Essaidi
17h	ID: 7130 <i>Étude bibliographique comparative des approches classiques et de l'apprentissage profond en reconnaissance vocale</i> Mohamed DAOUAD
17h30-18h	Coffee Break and Poster Session

Session Orale n° 1		ONLINE	15h à 17h30
Google Meet link:		https://meet.google.com/iqx-bfme-rqp	
Topic 2: Deep and Machine Learning		Chairman: A. BAHRI / Y. EL BORJI/ M. FAHIM	
15h	<p style="text-align: center;">ID: 2594 <i>Survey on Breast Cancer Tumor Segmentation Using Deep Learning Schemes</i> Zakaria ELGHAMCH</p>		
15h20	<p style="text-align: center;">ID: 1209 <i>Analyzing accidents using a hybrid approach between metaheuristics and Deep learning: An overview</i> Imane BRIKI</p>		
15h40	<p style="text-align: center;">ID: 7110 <i>An optimization methodology using TSDT theory and artificial neural networks for the analysis of FGM plates</i> Mohamed JANANAE ALLAH</p>		
16h	<p style="text-align: center;">ID: 5217 <i>Catalogue de données : l'impact du machine Learning</i> Asmae BOUFASSIL</p>		
16h20	<p style="text-align: center;">ID: 7129 <i>Impact of Machine Learning on Diabetes Management</i> SAHAR ECHAJEI</p>		
16h40	<p style="text-align: center;">ID: 9005 <i>Textured Images Segmentation Using Bi-dimensional Pairwise Markov Chain</i> Abdelali JOUMAD</p>		
17h	<p style="text-align: center;">ID: 9925 <i>Analyse par DRX des échantillons</i> Fahd Elkhalloufi</p>		
17h15	<p style="text-align: center;">ID: 9807 <i>Applications de L'IA pour la prédiction des nouvelles molécules en chimieorganique</i> Aziz Zaroual</p>		

Session Orale n° 2		ONLINE	15h à 17h30
Google Meet link:		https://meet.google.com/iws-ahrh-ixq	
Topic 2 : Optimisation & Smart Cities		Chairman: E. DADI / N. KANNOUF / F. ZAKANI	
15h	<p style="text-align: center;">ID: 9690 <i>L'intelligence artificielle pour booster le tourisme dans la région de Beni Mellal</i> Salah Eddine El Jarroudi</p>		
15h20	<p style="text-align: center;">ID: 7131 <i>Improving transportation for a smart and ecofriendly environment in smart cities</i> ALOUANE HOUDA</p>		
15h40	<p style="text-align: center;">ID: 1633 <i>Cement Dispatch Efficiency through License Plate Recognition for trucks identification & assignments</i> Mohammed Toum Benchekroun</p>		
16h	<p style="text-align: center;">ID: 2241 <i>A Survey of Blockchain Security: Challenges And Solution</i> Marouan Zouin</p>		
16h20	<p style="text-align: center;">ID: 2171 <i>Bioinspired Intelligent Optimization Algorithms and Its Applications for Mobile Robot</i> Fadlo Said</p>		

16h40	ID: 2296 New approach to solve the Job Shop Scheduling Problem Ismail Ezzerrifi Amrani
17h	ID: 7102 Construction du diagramme de Voronoï 2D à l'aide de cercles croissants Abderazzak Taime

Session Orale n° 3	ONLINE	15h à 17h30
Google Meet link: https://meet.google.com/zvv-nogc-ngv		

Topic 3: Big data & Education	Chairman: A. KHAMJANE/ A. RAGRAGUI/ T. BOUDAA
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15h	ID: 1520 <i>Data Lakehouse: a new data management approach</i> Hassan Badi
15h20	ID: 3488 ARTIFICIAL INTELLIGENCE IN STOCK MARKETS Mohammed Bouasabah
15h40	ID: 3631 <i>Artificial Intelligence for education Sustainability in higher education</i> Chemlal Yman
16h	ID: 8153 <i>Serious games are an innovative method for teaching mathematics`</i> Mounia El Rhayami
16h20	ID: 9807 <i>Spatio-Temporal statistical Analysis of Droughts in Al Hoceima Region by Using Meteorological Drought Indices</i> Ahmed Zian
16h40	ID: 8615 <i>Survey of dynamic analysis of Multi Degree of Freedom systems</i> Yousra Elhankouri

17h30-18h	Coffee Break and Poster Session
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