



- JIAMA'24 Program -

2nd International Conference on Artificial Intelligence and Applied Mathematics



May 11, 2024

Organized by
Faculty of Sciences and Techniques of Al-Hoceima

In collaboration with its partners



May 11, 2024	
8h00 - 9h00	Registration
9h00 - 09h30	<p>Welcome and opening Ceremony (Conference Room)</p> <p>https://meet.google.com/mxi-jgut-hbh</p>
09h35 - 10h10	<p>Plenary conference 1 (Face to Face): Chairman: Mohamed LOUZARI</p> <p><i>Continuum of Bifurcation Points Lacking Emanating Continua for Elliptic BVP'S</i></p> <p><i>Pr. José CARMONA TAPIA</i></p> <p><i>University of Almeria, Spain</i></p> <p>https://meet.google.com/mxi-jgut-hbh</p>
10h15- 10h50	<p>Plenary conference 2 (Face to Face): Chairman: Abderrahim ZANNOU</p> <p><i>Large Language Models: Principles, Fine-tuning, RAG & OpenAI API</i></p> <p><i>Pr. EL Habib NFAOUI</i></p> <p><i>University of Sidi Mohamed Ben Abdellah, Morocco</i></p> <p>https://meet.google.com/mxi-jgut-hbh</p>
11h00 - 11h25	Welcome Coffee
11h30 - 13h15	<p>Face to Face</p> <p>Applied Mathematics</p> <p>Oral Session 1: Conference Room</p> <p>Oral Session 2: Room – B4</p> <p>Artificial Intelligence</p> <p>Oral Session 1: Room – C4</p> <p>Oral Session 2: Room – G4</p>
	<p>ONLINE</p> <p>Applied Mathematics</p> <p>Oral Session 3: https://meet.google.com/mjv-rjha-zqz</p> <p>Oral Session 4: https://meet.google.com/rqs-qyyc-dha</p> <p>Oral Session 5: https://meet.google.com/juh-shwy-viw</p> <p>Oral Session 6: https://meet.google.com/mfj-kvoc-rzy</p>
	<p>Artificial Intelligence</p> <p>Oral Session 3: https://meet.google.com/ycb-onkq-uoq</p> <p>Oral Session 4: https://meet.google.com/yzr-ipor-pyf</p>
	<p>Parallel Sessions</p>
13h30 - 15h00	Lunch

15h10 - 15h45	<p>Plenary conference 3 (ONLINE):</p> <p>Chairman: Morad OUDGHIRI</p> <p><i>Existence of 2-Plectic Structures on Quadratic Lie Algebras</i> <i>Pr. Ignacio BAJO</i> <i>University of Vigo, Spain</i></p> <p>https://meet.google.com/mkx-dwzr-yen</p>
15h50- 16h25	<p>Plenary conference 4 (ONLINE):</p> <p>Chairman: Abdelkhalek FAOUZI</p> <p><i>On the Wold Decomposition of Operator in Hilbert Spaces</i> <i>Pr. El Hassan ZEROUALI</i> <i>University of Mohamed V, Morocco</i></p> <p>https://meet.google.com/mkx-dwzr-yen</p>
16h30 - 18h30	<p style="text-align: center;">Face to face</p> <p>Applied Mathematics</p> <p>Oral Session 7: Conference Room Oral Session 8: Room - B4</p> <hr/> <p style="text-align: center;">ONLINE</p> <p>Applied Mathematics</p> <p>Oral Session 9: https://meet.google.com/oyd-fmop-xtt Oral Session 10: https://meet.google.com/pjv-pccd-khh Oral Session 11: https://meet.google.com/jrn-suev-zmn</p> <p>Artificial Intelligence</p> <p>Oral Session 5: https://meet.google.com/vbw-dhpz-wyv Oral Session 6: https://meet.google.com/skm-evmz-ksr Oral Session 7: https://meet.google.com/ret-fjtz-moj</p>
18h30	<p>Coffee Break and Closing Ceremony</p>

Parallel Sessions Details (Morning)

11h30 -13h15

Oral Session 1: Applied Maths **Face to Face** (Conference Room) 11h30-13h00

Chairs: José Carmona Tapia/Abdeslam EL BAKKALI / MASSAR Mohamed

11H30	<p>ID : 15</p> <p>Common spectral properties of bounded right linear operators AC and BA in the quaternionic setting <i>Rachid Arzini</i></p>
11H45	<p>ID : 54</p> <p>Sur la Géométrie des Racines des équations Trinomiales <i>Kaoutar LAMRINI UAHABI</i></p>
12h	<p>ID : 68</p> <p>On the solution of the second-order Saigo-Kilbas equation using a generalized fractional power series <i>Youness Assebbane</i></p>
12h15	<p>ID : 12</p> <p>Further refinements of real power form inequalities for convex functions via Weak sub-majorization <i>Mohammed Bouchangour</i></p>
12h30	<p>ID : 107</p> <p>Property UWE under functional calculus <i>Noureddine El Amri</i></p>
12h45	<p>ID : 137</p> <p>On the Sum of i.i.d. Log-normal Random Variables and Applications <i>El-Houcine El Baqqaly</i></p>
13h	<p>ID : 144</p> <p>High-order spline finite element method for solving time-dependent electromagnetic waves <i>Mohamed ADDAM</i></p>

Oral Session 2: Applied Mathematics **Face to Face** (Room B4) 11h30-13h00

Chairs: Mohamed Addam /Zakaria El Allali/ Fouzia Moradi

11h30	<p>ID : 42</p> <p>Semiregularity and Isolated Spectral Points <i>Mohammed Kachad</i></p>
11h45	<p>ID : 38</p> <p>On automatic surjectivity of some peripheral local spectrum preserving maps <i>El-Houcine El Bouchibti</i></p>
12h	<p>ID : 65</p> <p>Maps Preserving the δ-Spectrum of Product or Triple Product of Operators <i>Hassane Benbouziane</i></p>
12h15	<p>ID : 113</p> <p>Linear mappings that preserve operators which are hereditary roots <i>Hakima Mohsine</i></p>
12h30	<p>ID : 70</p> <p>On Numerical Solutions of Fractional Telegraph Equations <i>Mohamed Echchehira</i></p>
12h45	<p>ID : 77</p> <p>Maps preserving some spectral domains of skew-Jordan products of operators <i>Youssef Chakir</i></p>

Oral Session 1: Artificial intelligence		Face to Face (Room C4)	11h30-13h00
Chairs: El Habib Nfaoui /Adil soufi/Nabil Kannouf			
11h30	<p style="text-align: center;">ID : 104 An Overview of Real-Time Big Data Analytics <i>Maryam Maatallah</i></p>		
11h45	<p style="text-align: center;">ID : 72 Implementing speech recognition for the Amazigh language using the Kaldi ASR toolkit <i>Fatima BARKANI</i></p>		
12h00	<p style="text-align: center;">ID : 97 Amazigh Speech Recognition via Parallel CNN Transformer-Encoder Model <i>Mohamed DAOUAD</i></p>		
12h15	<p style="text-align: center;">ID : 105 Literature review of speech emotion recognition methods <i>Abdelkader BENZIRARE</i></p>		
12h30	<p style="text-align: center;">ID : 14 Transformer for Arabic Speech Commands Recognition using fine-tuning Hyperparameter and data augmentation Technique <i>Omayma MAHMOUDI</i></p>		

Oral Session 2: Artificial intelligence		Face to Face (Room G4)	11h30-13h00
Chairs: Filali Bouami Mouncef/Naoufal El allali/Hamidi Mohamed			
11h30	<p style="text-align: center;">ID : 23 Blockchain for Artificial Intelligence <i>Salma El Oumari</i></p>		
11h45	<p style="text-align: center;">ID : 98 Enhancing Sentiment Analysis in Moroccan Darija Through Transcoding to Modern Standard Arabic <i>HASNAE SAKHI</i></p>		
12h	<p style="text-align: center;">ID : 106 Enhancing Automatic Speech Recognition with Formant Frequency Attribute <i>Ouissam ZEALOUK</i></p>		
12h15	<p style="text-align: center;">ID : 133 A novel method for generating Chest X-ray reports using multi-modal feature fusion <i>Fatima Cheddi</i></p>		

Oral Session 3: Applied Mathematics		ONLINE	11h30 -13h00
https://meet.google.com/mjv-rjha-zqz			
Chairs: Ahmed Boujraf / Chafik Allouch / TAHRICHI Mohamed			
11h30	<p style="text-align: center;">ID : 26</p> <p style="text-align: center;">Cubic Spline quasi-interpolant operator to solve integro-differential equations with weakly singular kernels <i>Mohamed Tahrichi</i></p>		
11h45	<p style="text-align: center;">ID : 37</p> <p style="text-align: center;">Richardson Extrapolation of Kantorovich and Degenerate Kernel Method for Fredholm Integral Equations of the Second Kind <i>Hamza Bouda</i></p>		
12h	<p style="text-align: center;">ID : 66</p> <p style="text-align: center;">A fast method for numerical solution of time-fractional partial differential equations <i>Ahdia Achabbak</i></p>		
12h15	<p style="text-align: center;">ID : 131</p> <p style="text-align: center;">Two degenerate kernel approaches for second kind Fredholm integral equations in weighted spaces <i>Abdelmajid El bouayadi</i></p>		
12h30	<p style="text-align: center;">ID : 7</p> <p style="text-align: center;">Projection and modified projection methods for nonlinear integral equations with non-smooth kernels <i>Chafik Allouch</i></p>		
12h45	<p style="text-align: center;">ID : 87</p> <p style="text-align: center;">Numerical solution of Hammerstein integral equations with Green's kernels <i>Mohamed Arrai</i></p>		
13h	<p style="text-align: center;">ID : 118</p> <p style="text-align: center;">Révision automatique de la matrice de comparaison incohérente dans le processus hiérarchique analytique (AHP) <i>Sanaa Badr</i></p>		

Oral Session 4: Applied Mathematics		ONLINE	11h30 -13h00
https://meet.google.com/rqs-qyyc-dha			
Chairs: Abdelhafid SALMANI / Younes FILALI / Abdelghani SALHI			
11h30	<p style="text-align: center;">ID : 3</p> <p style="text-align: center;">Stability Analysis of Mathematical Model Measles <i>Mohamed Baroudi</i></p>		
11h45	<p style="text-align: center;">ID : 9</p> <p style="text-align: center;">MATHEMATICAL MODELING AND STRATEGY FOR OPTIMAL CONTROL OF DIPHTHERIA <i>Hicham Gourram</i></p>		
12h	<p style="text-align: center;">ID : 34</p> <p style="text-align: center;">Existence of entropy solutions for some quasilinear and non-coercive elliptic obstacle problems <i>Rajae ZEROUALI</i></p>		
12h15	<p style="text-align: center;">ID : 47</p> <p style="text-align: center;">Critical point theorems of non-smooth functionals without the Palais-Smale condition <i>Hafida Boukhrisse</i></p>		

12h30	ID : 16 The general Bernstein function: Application to χ -fractional differential equations <i>Ahmad Sami Bataineh</i>
12h45	ID : 125 Ground state solutions for a critical Hartree systems involving the fractional Laplacian <i>Rachid SERSIF</i>
13h	ID : 139 Composition operators on Bloch space <i>Kaoutar EL-KHATTABI</i>

Oral Session 5: Applied Mathematics	ONLINE	11h30 -13h15
https://meet.google.com/juh-shwy-viw		
Chairs: Abderrahim AZOUANI / Hamza EL AZHAR		

11h30	ID : 5 Equivalence of K -Functionals and Modulus of Smoothness Generated by a Generalized Jacobi-Dunkl Operator on the Real Line <i>Mustapha Boujeddaine</i>
11h45	ID : 49 Existence and Regularizing Effect of a lower order term for the fractional Laplacian BVP involving Hardy Potential <i>RUBEN FIÑANA ARANEGA</i>
12h00	ID : 115 Some new existence results on the hybrid ψ -fractional differential equation with three-point boundary conditions <i>Baihi Asmaa</i>
12h15	ID : 73 Better understanding 1-Laplacian type problems and their applications <i>Antonio J. Martínez Aparicio</i>
12h30	ID : 52 Treillis des graphes implicatifs <i>Fidy Andrianarivony</i>
12h45	ID : 83 Generalization of q-Dunkl transform <i>Abdelilah El mourni</i>
13h00	ID : 85 Generalized Critical Point Theorem for Convex Perturbations: Relativistic Analysis and Applications <i>Miguel Martínez Teruel</i>
13h15	ID : 55 On a problem of Pillai involving S-units and Padovan numbers <i>Abdelghani LARHLID</i>

Oral Session 6: Applied Mathematics**ONLINE**

11h30 -13h30

<https://meet.google.com/mfj-kvoc-rzy>

Chairs: BAKKALI Abderrahmane / AIT TOUCHENT Kamal

11h30	ID : 40 Dual optimality conditions in bilevel optimization via two approaches <i>Zakarya Dardour</i>
11h45	ID : 17 Characterization and Prediction of the Mechanical Properties of Multilayer Viscoelastic Reinforced Composites Considering Imperfect Interfaces <i>Ahmed Bouchikhi</i>
12h	ID : 25 Solving the Fractional Non-homogeneous Wave Equation with Singular Speed by Means of the Fourier Transform <i>Abdelmjid Benmerrous</i>
12h15	ID : 31 Numerical scheme for solving fractional differential equations: Simpson method <i>Abdellatif SEMMOURI</i>
12h30	ID : 61 An Efficient Second-Order Finite Difference Scheme for Solving a Time-Space Riesz Fractional Diffusion Equation with Dirichlet BCs <i>Mouhssine Zakaria</i>
12h45	ID : 100 Dynamics of a Generalized Stochastic Epidemic Model of COVID-19 with Carrier Effect <i>Moussa Bachraoui</i>
13h	ID : 36 Implementing PID Control for Managing Type 1 Diabetes with Bergman's Model <i>Hanane Ferjouchia</i>
13h15	ID : 143 Renforcement parasismique : étude de cas sur les structures à portiques en béton armé <i>ADIL ZIRAOU</i>

Oral Session 3: Artificial intelligence**ONLINE**

11h30 -13h30

<https://meet.google.com/ycb-onkq-uoq>

Chairs: FAHIM Mohamed / EL MHOUTI Abderrahim/ASAIDI Hakima

11h30	ID : 30 Optimizing Breast Cancer Detection: Integrating Machine Learning with Feature Selection <i>Salsabila Benghazouani</i>
11h45	ID : 46 Machine Learning for Industrial Manufacturing: A Case Study on Injection Molding Machine Selection Support <i>Faouzi Tayalati</i>
12h00	ID : 53 Exploring Vision Transformers for Emergency Aircraft Landing Site Detection <i>Adil Illi</i>
12h15	ID : 67 An adaptive Fast-RCNN method for fish monitoring: From an Artificial Environment to the Ocean <i>Mohcine Boudhane</i>

12h30	<p style="text-align: center;">ID : 108</p> <p style="text-align: center;">Evaluation Of the Performance Of Machine Learning Algorithms For Assessing Soil Erosion Susceptibility Mapping: A Case Study In Morocco</p> <p style="text-align: center;"><i>Hicham Gueddari</i></p>
12h45	<p style="text-align: center;">ID : 110</p> <p style="text-align: center;">Comparative Study of Two Clustering Algorithms: Performance Analysis of a New Algorithm Against the Evidential CMeans Algorithm</p> <p style="text-align: center;"><i>Yissam Lakhdar</i></p>
13h00	<p style="text-align: center;">ID : 103</p> <p style="text-align: center;">Robust Face Recognition Using CNN-Based Feature Extraction and Exponential Discriminant Analysis</p> <p style="text-align: center;"><i>Ayyad Maafiri</i></p>
13h15	<p style="text-align: center;">ID : 39</p> <p style="text-align: center;">Data-Driven Transit: Orchestrating IoT and Big Data for Smarter Mobility</p> <p style="text-align: center;"><i>Chaimae Kanzouai</i></p>

<p>Oral Session 4: Artificial intelligence ONLINE 11h30 -13h30</p> <p style="text-align: center;">https://meet.google.com/yzr-ipor-pyf</p> <p>Chairs: Mohamed BELLOUKI / SRAI AZIZ / Mourad FARISS</p>	
11h30	<p style="text-align: center;">ID : 114</p> <p style="text-align: center;">Machine learning based methods for neutron-gamma discrimination using scintillators</p> <p style="text-align: center;"><i>Imane Ahnouz</i></p>
11h45	<p style="text-align: center;">ID : 92</p> <p style="text-align: center;">Threat Detection and Response (TDAR) Analysis for SIEM and Incident Response</p> <p style="text-align: center;"><i>Yasmine Abouddrar</i></p>
12h00	<p style="text-align: center;">ID : 50</p> <p style="text-align: center;">AI in Manufacturing: Building Sustainable and Efficient Supply Chains</p> <p style="text-align: center;"><i>Ayoubi Hanan</i></p>
12h15	<p style="text-align: center;">ID : 57</p> <p style="text-align: center;">Artificial intelligence metamodeling algorithms for estimating thermal conductivity of bio-composite materials</p> <p style="text-align: center;"><i>Hafida Er Radi</i></p>
12h30	<p style="text-align: center;">ID : 82</p> <p style="text-align: center;">Survey of Low-Cost Cryptographic Methods in the World of IoT</p> <p style="text-align: center;"><i>Chaymae KADDOURI</i></p>
12h45	<p style="text-align: center;">ID : 78</p> <p style="text-align: center;">Enhancing Diabetes Risk Prediction with Hybrid Machine Learning Models</p> <p style="text-align: center;"><i>Sahar Echajei</i></p>
13h00	<p style="text-align: center;">ID : 95</p> <p style="text-align: center;">Analyzes of bio big data with artificial intelligence</p> <p style="text-align: center;"><i>Ouafa yaakoubi</i></p>
13h15	<p style="text-align: center;">ID : 35</p> <p style="text-align: center;">Ethereum vs IOTA for Internet of Things</p> <p style="text-align: center;"><i>Mohamed Fartitchou</i></p>

Parallel Sessions Details (Afternoon)

16h30 -18h30

Oral Session 7: Applied Maths **Face to Face** (Conference Room) 16h30-18h15

Chairs: Mohammed Kachad /Younes ABOU EL HANOUNE / El Houcine EL BOUCHIBTI

16h30	ID : 69 Solution to transport equation with interactive fuzzy data via drastic t-norm <i>Mohamed Hssini</i>
16h45	ID : 75 Unstaggered central schemes for Arrhenius-type look-ahead traffic flow model <i>Said Belkadi</i>
17h	ID : 81 Dynamic Deflection in Kirchhoff Plates Using Non-Uniform Rational Basis Splines (NURBS) <i>Ahmed Akhajjam</i>
17h15	ID : 86 On the higher order spectrum of the p-biharmonic operator <i>Mohamed El Massaoudi</i>
17h30	ID : 101 On Generalizing the Construction of Quantum Codes over Non-Local Rings <i>NOUREDDINE ESSAIDI</i>
17h45	ID : 140 Enhanced Incompressibility Handling in Frequency Domain Navier-Stokes Solver with Penalized Continuity Equation and Finite Volume Method <i>Youssef AMIROUNE</i>

Oral Session 8: Applied Mathematics **Face to Face** (Room G4) 16h30 -18h15

Chairs: BENBOUZIANE Hassane / Najat Moradi / Omar DARHOUCHE

16h30	ID : 102 Divisibility Properties of Class Numbers in Paired Imaginary Quadratic Fields <i>HAUSA EL KHATTABI</i>
16h45	ID : 51 Parameter Estimators for the Geometric Brownian Motion Model from Discrete Observations <i>Hanae El Ouardani</i>
17h	ID : 58 Asymptotic behavior of solutions of nonlinear parabolic equations with dynamical boundary condition <i>Anass Lamaizi</i>
17h15	ID : 130 Nano-scale Simulation of Thermal Transport Properties in Thermal Interface Materials <i>Othman Soubai</i>
17h30	ID : 63 Comparison of the effect of the thickness of two materials on the transient heat <i>Mohammed Taibi</i>
17h45	ID : 59 Existence and uniqueness of weak solutions for a class of variable-order fractional $p(x, \cdot)$ -Laplacian problems <i>Azghay Abdelilah</i>
18h	ID : 141 A Frequency-domain Method for the Num. computation of the sol of Time dependent Navier-Stokes equation <i>EL Mehdi OUKIF</i>

Oral Session 9: Applied Mathematics		ONLINE	16h30 -18h30
https://meet.google.com/o vd-fmop-xtt			
Chairs: ABKARI Mbarek / Mohamed Karmouni / Lakhifa Sadek			
16h30	ID : 22 Analysis of a SIRC Model of Cochineal Infestation in Cacti Populations <i>Oumaima El Baz</i>		
16h45	ID : 129 Unexpected results for a singular elliptic problem <i>Pedro J. Martinez-Aparicio</i>		
17h00	ID : 20 Equivalence of K-functionals and modulus of smoothness generated by the Fourier-Mellin operator on the spaces $L_2(G)$ <i>Monir Nadi</i>		
17h15	ID : 29 Simplicial complex Gauss-Bonnet operator and its semi Fredholmness <i>Khalid HATIM</i>		
17h30	ID : 33 The optimal control and stochastic development of multi-strains <i>Ahmed Elqaddaoui</i>		
17h45	ID : 44 The Galerkin Bell method to solve the fractional optimal control problems with inequality constraints <i>Said Ounamane</i>		
18h	ID : 71 On ergodic theorem for a family of operators <i>Abdellah Akrym</i>		
18h15	ID : 122 Mathematical Modeling and Numerical Simulation of Trastuzumab's Impact on Cardiovascular Function in Patients with HER2-Positive Metastatic Breast Cancer <i>Maryem El Karchani</i>		
18h30	ID : 10 Mathematical model analysis of hepatitis C with cardiac side effects of DAA Treatment <i>Chaimae El Mourabit</i>		

Oral Session 10: Applied Mathematics		ONLINE	16h30 -18h30
https://meet.google.com/pjv-pccd-khh			
Chairs: Ahmed Moussaid / Abdelghali AMMAR / Ahmed RIKOUAN			
16h30	ID : 43 A class of quasilinear and noncoercive elliptic problem in a two-component domain with L_1 data <i>Youssef Hajji</i>		
16h45	ID : 90 Existence of Solutions for a $p(x)$ -Elliptic Problem with L_m Data under Fourier Boundary Conditions <i>Hayat Benkhalou</i>		
17h00	ID : 117 Analyzing the Mathematical Stability of a Cholera Disease Model <i>Issam Sahib</i>		
17h15	ID : 134 A GENERALIZED DRAZIN INVERSE IN A RING <i>Mbarek ABKARI</i>		
17h30	ID : 120 Mathematical modeling of non-small cell lung carcinoma stages <i>SIHAM DAOUANE</i>		

17h45	ID : 19 On uniform null controllability of transport-diffusion equations with vanishing viscosity limit <i>Fouad ET-TAHRI</i>
18h00	ID : 132 Space-Schwarz domain decomposition method applied to Euler-Bernoulli beam equation <i>Abdelhalim Ben Bouzid</i>
18h15	ID : 27 Stability of reaction fronts in a liquid medium <i>Hamza Rouah</i>
18h30	ID : 142 Local ergodic theorem for C_0 -semigroups <i>Fatih Barki</i>

Oral Session 11: Applied Mathematics		ONLINE	16h30 -18h30
https://meet.google.com/jrn-suev-zmn			
Chairs: ABDELHAMID TADMORI / Mostafa ALLAOUI / Ali EL MAHRAOUI			
16h30	ID : 21 The cotangent fractional Cauchy problem: analysis and numerical method <i>Mohamed Aymen El Qasraoui</i>		
16h45	ID : 119 Symmetry Method, Exact Solutions and Conservation Laws of some Nonlinear time-fractional Mathematical Physics Equations <i>Nisrine MAAROUF</i>		
17h00	ID : 135 Asymptotic study for a nonlinear elliptic boundary Steklov problem on a nanostructure <i>Hicham Maadan</i>		
17h15	ID : 74 Unilateral problem associated to some degenerated elliptic equations with L-data in anisotropic weighted sobolev spaces <i>Raïss Inssaf</i>		
17h30	ID : 4 Mathematical Modeling, Analysis, And Optimal Control Of The N+7 Compartment Smoking Epidemic Model <i>Imane Smouni</i>		
17h45	ID : 28 Some non-Polya fields of $K = \mathbb{Q}(\sqrt{d_1}, \sqrt{d_2})$ where $(d_1, d_2) = 1$ and the prime 2 is totally ramified in K/\mathbb{Q} <i>Said El madrari</i>		
18h00	ID : 45 Existence and multiplicity results for Kirchhoff-type superlinear problems involving the fractional $p(x)$ -Laplacian satisfying (C)-condition <i>Mahmoud El Ahmadi</i>		
18h15	ID : 76 Sur le spectre de l'oscillateur harmonique sur \mathbb{R} perturbé par un certain potentiel scalaire <i>Mohamed El Hammaji</i>		
18h30	ID : 79 Adaptive Support Size for Compactly Supported Radial Basis Functions in Bidimensional Empirical Mode Decomposition <i>Mohamed Arrazaki</i>		

Oral Session 5: Artificial intelligence		ONLINE	16h30 -18h30
https://meet.google.com/vbw-dhpz-wyv			
Chairs: DOUZI Youssef / OUAZANE Zouhair /BOUAROUROU Soukaina			
16h30	<p style="text-align: center;">ID : 60 Decrypting the Dynamic Dirham-Bitcoin Link: A VAR Model Analysis <i>Mustapha Khalfouni</i></p>		
16h45	<p style="text-align: center;">ID : 64 Estimating Relative Humidity with an Explainable Machine Learning Model <i>Mohamed Chaibi</i></p>		
17h00	<p style="text-align: center;">ID : 89 IoT-Based Intrusion Detection: State-of-the-Art Machine Learning Approaches <i>Mohammed Berhili</i></p>		
17h15	<p style="text-align: center;">ID : 123 Evaluating blockchain security and privacy via graph-based attacks <i>Abdelkarim Lkoaiza</i></p>		
17h30	<p style="text-align: center;">ID : 124 Analyzing Blockchain Network Decentralization through graph theory <i>Asmaa Cherkaoui</i></p>		
17h45	<p style="text-align: center;">ID : 128 Securing Wireless Sensor Networks: Reinforcement Learning for Intrusion Detection <i>Hajar FARES</i></p>		
18h00	<p style="text-align: center;">ID : 80 Blockchain Applications in the Healthcare Industry: An Overview <i>Nihal Ettaloui</i></p>		
18h15	<p style="text-align: center;">ID : 109 Intelligent CCTV in Healthcare systems: State of art <i>Nihal Ferhane</i></p>		

Oral Session 6: Artificial intelligence		ONLINE	16h30 -18h00
https://meet.google.com/skm-evmz-ksr			
Chairs: EL KHALFOUNI Mostafa / REGRAGUI Anouar /ZEALOUK Ouissam			
16h30	<p style="text-align: center;">ID : 41 Makespan Minimization in Distributed no-wait flow shop problem with sequence dependent Setup times <i>Achraf Sayah</i></p>		
16h45	<p style="text-align: center;">ID : 48 predictive model for assessing the performance of higher education: A Model with Backpropagation Neural Networks and Genetic Algorithms <i>Yman chemlal</i></p>		
17h00	<p style="text-align: center;">ID : 62 Optimal control problem with free final-time: chemotherapy of cancer <i>Samira Zouhri</i></p>		
17h15	<p style="text-align: center;">ID : 84 Improved metaheuristics with migratory bird and artificial bee colony optimization algorithms to solve the no-wait flow-scheduling problem <i>Omar Nejjarou</i></p>		

17h30	ID : 88 Enhancing Traffic Flow through Particle Swarm Optimization of Signal Timing <i>Youssef Bentaleb</i>
17h45	ID : 112 Numerical Approximation of High-dimensional Evolution PDEs using Deep Neural Networks <i>Khalid El Azzaoui</i>

Oral Session 7: Artificial intelligence	ONLINE	16h30 -18h30
https://meet.google.com/ret-fjtz-moj		
Chairs: Imad Badi / Aziz Khamjane / Ahmad Allaoui		

16h30	ID : 93 Sentiment Analysis in Social Media and Reviews <i>El mehdi Lghaouch</i>
16h45	ID : 96 Distributed CV Classification with Attention Mechanisms: A Comparative Study <i>Soumia CHAFI</i>
17h00	ID : 99 Collecting and Utilizing Textual Data for Sentiment Analysis of Arabic Dialects <i>Taha Marbough</i>
17h15	ID : 121 Recent Review of Deep learning Chatbot <i>Abdelmounaim Bouhlali</i>
17h30	ID : 126 Grouping Youtube video comments using K-means clustering <i>Hassan Badi</i>
17h45	ID : 136 A Performance Analysis of Machine Learning Algorithms in Stock Market Prediction, Compared to Traditional Indicators <i>Mohammed Bouasabah</i>
18h00	ID : 116 Facial Emotion Detection Using Transfer Learning in the Deep CNN <i>Fouad Lehlou</i>
18h15	ID : 24 Machine Learning Empowered Agriculture: Optimizing Crop Yield with Fertilizer Recommendations <i>Mohamed-Amine Nebri</i>