

IC2MAI'25 Program

IC2MAI'25-FST-Mohammedia : <https://cimaia.sciencesconf.org/>

PC : Plenary conference	S : Session
S 1 : Simulation and Modeling for Physical approaches	S 2 : Advanced Models in Image Processing
S 3 : Theoretical Modeling and Analysis	S 4 : Statistical Learning and Methaheuristic
S 5 : Machine Learning and its Real-World Applications	S 6 : Modeling and Analysis of Natural Phenomena

Thursday June 19, 2025

8h30-9h00	Registration					
9h00-9h15	Welcome and Opening Ceremony					
09h15-10h00	Plenary conference: M. BENDAHMANE				Chairman : N. MOUSSAID	
10h00-10h45	Plenary conference : N. ALAA				Chairman : A. BEN-LOGHFYRY	
10h45-11h30	Plenary conference : B. ABOU EL MAJD				Chairman : K. ALLALI	
11h30-12h00	Coffee Break					
12h00-14h30	Sessions					
	<u>S 1</u> : Salle GMI2 Chairs : B. ABOU EL MAJD, M. EL KHLIFI, and A. TIMESLI	<u>S 2</u> : Salle GMI3 Chairs : A.BEN-LOGHFYRY O.GOUASNOUANE, and M. ZIANI	<u>S 3</u> : Salle IDISI1 Chairs : M. KABIL, Y. EL YAZIDI, A. EL ADRAOUI, And S. LAZAIZ	<u>S 4</u> : Salle MIPDEUST Chairs : H. CHAMLAL, H. LAKHBAB and A. BELMAATI	<u>S 5</u> : Salle SDID Chairs : S. EL MOUMEN, A.KAMOUSS , and T.OUADERHMAN	<u>S 6</u> : Salle IDS11 Chairs : A.TAIK, K. ALLALI, and N. MOUSSAID

12h00-12h15	Y. ROUKAIBI	F-E. SALAH	Z. FATTAH	K. BENOMAR	K. MOUHAYEN	R. AITBELALE
12h15-12h30	R. ELKADMIRI	J. ATTMANI	M. EZZEROUAL	M. BENHAFID	M. MANSOUHI	H. LEFRAICH
12h30-12h45	S. HASSOUNA	F. BENDAIDA	A. EL BARAYMI	S. BOUAMIRA	I. MOUANGUI	M. LAKHSSASSI
12h45-13h00	M. JANANAE ALLAH	H. REGRAGUI	M. DAHMAN	M. MESKAOUI	F. EDDAOUDI	I. ELKORAICHI
13h00-13h15	Y. BOUCHAOUATA	M.A. MIMOUNI	A. HAMMIA	C. ELOKRI	G. HEIDER	M. CHAGDAL
13h15-13h30	A SERRAR	W. EL AFARI	M. OULABES	F.Z. AHSOUS	S. CHAFI	A. CHIBOUB
13h30-13h45	A. OUAHLA	A. NOKRANE	A. ELAASSRI	A. AMARIR	M. GANMATI	M. ELHACHEMY
13h45-14h00	M. KARDOUDI	F.Z. SEMMANE	O. BONOUALI	N. GHAZLI	A. GOUZI	F. SNIBA
14h00-14h15	A. EL OMARI	K. LEHRIZI	M. MAHBOUBI	M. TOUAOUSSA	S. MOUSSATEN	M. EL BADAoui
14h15-14h30	R. FOUZI	R. ADDOUCH	I. SOUKTANI	A. SGHIR	M. JANATI	M. EL HATHOUT
14h30	Lunch Break					

The explicit program :

PC	Plenary conference	
PC	Stochastic Electromechanical Bidomain Model in Electrocardiology.	Mostafa BENDAHMANE
PC	On a fractional reaction-diffusion system applied to image restoration and enhancement.	Noureddine ALAA
PC	De la Science à l'Impact : Valoriser la Recherche par l'Innovation - Retour d'expérience autour de My MDO.	Badr ABOU ELMAJD
S	Sessions	
S 1	Simulation and Modeling for Physical approaches	Organizers: Badr ABOU EL MAJD, Mohamed EL KHLIFI , and Abdelaziz TIMESLI
S 1 -1	Nonlinear buckling and post-buckling behavior of FGM plates based on FSDT Theory	Yahya ROUKAIBI , Mohamed JANANAE ALLAH and Abdelaziz TIMESLI
S 1 -2	Finite Element-Meshless coupling for analyzing inhomogeneous structures under small and large deformations	Redouane ELKADMIRI, Youssef BELAASILIA and Abdelaziz TIMESLI
S 1 -3	New Approach of domain decomposition based on Schur technique	Saad HASSOUNA, Abdelaziz TIMESLI and Abderrazak RAMADANE
S 1 -4	Analysis of free and forced vibrations of FGM plates using an optimization methodology combining artificial intelligence and third-order shear deformation theory	Mohamed JANANAE ALLAH, Saad HASSOUNA, Badr ABOU EL MAJD and Abdelaziz TIMESLI
S 1 -5	An analytical approach to stability analysis of porous functionally graded skew plates using a new higher-order trigonometric shear deformation theory	Youssef BOUCHAOUATA, Saad HASSOUNA and Abdelaziz TIMESLI
S 1 -6	Flow Separation Control on a Ramp Using the Coanda Effect	Abderrahime SERRAR, M. EL KHLIFI and A. KOURTA
S 1 -7	Numerical modeling of cavitated and textured squeeze films	Abdelhamid OUAHLA, Mohamed NABHANI, Said SOBHI, and Mohamed EL KHLIFI
S 1 -8	Numerical comparison of infinite and finite MHD bearings	Mohammed KARDOUDI, Mohamed NABHANI and Mohamed EL KHLIFI
S 1 -9	Stiefel manifold interpolation method for adapting parameterized data and application to fluid dynamics	Achraf EL OMARI, Mohamed EL KHLIFI and Laurent CORDIER
S 1 -10	Numerical analysis of the elastic buckling of functionally graded porous beams	Redouane FOUZI and Khadija MHADA

S2	Advanced Models in Image Processing	Organizers : Anouar BEN-LOGHFYRY, Omar GOUASNOUANE and Mohammed ZIANI
S2- 1	Image Deblurring via Nash Equilibrium and Fractional-Order Derivatives	Fatima-Ezzahrae SALAH and Nouredine MOUSSAID
S2- 2	A Novel Model Based on a Nonlinear Fractional System for Image Restoration	Jamal ATTMANI , Abdelghafour ATLAS and Fahd KARAMI
S2- 3	A nonlocal fourth-order model for image denoising	Fatiha BENDAIDA , Fahd KARAMI and Driss MESKINE
S2- 4	Blind Deconvolution on Grayscale Images via Game Theory and CNNs	Hind REGRAGUI , Mohammed ZIANI and Nouredine MOUSSAID
S2- 5	Restauration d'Images par Réseaux de Neurones Profonds - Une approche variationnelle	Mohamed Amine MIMOUNI
S2- 6	Evaluating state-of-the-art deep learning models for brain tumor segmentation in MRI scans	Walid EL AFARI
S2- 7	Nonlinear hyperbolic-parabolic equations with variable exponents: Application to image decomposition	Ahmed NOKRANE , Nour Eddine ALAA, Mostafa BENDAHMANE, and Fatima AQEL
S2- 8	Enhancing blind deconvolution through bilateral total variation and fractional order derivatives	Fatima Zahra SEMMANE , Mohammed ZIANI and Nouredine MOUSSAID
S2- 9	Image denoising via optimal control of the diffusivity function in the Perona-Malik model	Kawtar LEHRIZI , Omar GOUASNOUANE, Anouar BEN-LOGHFYRY and Nouredine MOUSSAID
S2- 10	Edge detection and noise removal based on non local operator via Nash game equilibrium	Requia ADDOUCH , Nouredine MOUSSAID, Omar GOUASNOUANE and Anouar BEN-LOGHFYRY
S3	Theoretical Modeling and Analysis	Organizers: Mustapha KABIL, Youness EL YAZIDI, Abderrahim EL ADRAOUI and Samih LAZAIZ
S3- 1	Some Geometric Inequalities	Zakaria FATTAH
S3- 2	Parabolic Equations With Singular Terms	Meriem EZZEROUAL and Mostafa EL MOUMNI
S3- 3	On the first eigenvalue of the p-Laplacian with Robin boundary conditions	Abdelaziz EL BARAYMI , Youness EL YAZIDI and Bouchaib FERRAHI
S3- 4	Some Fixed Point Results for Generalized Hardy–Rogers Type α -F-Contractions	Mohammed DAHMAN , Mustapha KABIL and Abdessamad KAMOISS
S3- 5	FIXED POINTS OF RANDOM F-CONTRACTIONS IN SUPRAMETRIC SPACES	Azzeddine HAMMIA , K.CHAIRA, M. KABIL and S. LAZAIZ
S3- 6	A Fixed Point Theorem for G_f -Kannan Contractive Mappings in Generalized Suprametric Spaces with a Digraph	Mouad OULABES , Karim CHAIRA, Mustapha KABIL and Samih LAZAIZ
S3- 7	Parabolic periodic problem with nonlinear boundary conditions	Abdelwahab ELAASSRI and Hamza ALAA
S3- 8	Numerical Simulation of a classe of nonlinear periodic differential systems by FNO	Oumaima BONOUALI and Hamza ALAA

S3- 9	A fixed point result in Menger b-suprametric spaces	Mohammed MAHBOUBI , CHAIRA karim and KABIL mustapha
S3- 10	On the spectra of two-graphs	Imane SOUKTANI , Abderrahim BOUSSAÏRIB and Mohamed ZOUAGUI

S4	Statistical Learning and Methaheuristic	Organizers: Hasna CHAMLAL, Halima CHAMLAL and Aziza BELMAATI
S4- 1	Human Action Recognition with Features Optimization	Kaoutar BENOMAR , OUARTASSI Bajil and OUACHTOUK Ilias
S4- 2	Contribution to Supply Chain Modeling and the Integration of Industry 4.0 Technologies	Meriem BENHAFID and AKHIATE Aziz
S4- 3	A novel hybrid approach for feature selection in high-dimensional datasets	Safaa BOUAMIRA , Hasna CHAMLAL and Tayeb OUADERAHMAN
S4- 4	Information Theory in Multi-Label Feature Selection: An Analytical Review	Mouhsin MESKAoui , CHAMLAL Hasna and OUADERHMAN Tayeb
S4- 5	A metaheuristic approach to uncertainty estimation	Chourouk ELOKRI , Tayeb OUADERHMANE and Hasna CHAMLAL
S4- 6	High-Dimensional Lp-Quantile Regression Framework for Robust and Sensitive Variable Selection	Fatima Zahra AHSOUS , Hasna CHAMLAL and Karim OULKACHA
S4- 7	Edge Detection by Artificial Intelligence	Amina AMARIR and Nour Eddine ALAA
S4- 8	Optimizing Image Retrieval through the Integration of Deep Learning and Pareto Front Theory	Nassima GHAZLI , Nouredine MOUSSAID, Omar GOUASNOUANE and Anouar BEN-LOGHFYRY
S4- 9	Robust Image Retrieval via Multi-Axis MLP-Based Denoising	Mohammed TOUAOUSSA , Nouredine MOUSSAID, Omar GOUASNOUANE and Anouar BEN-LOGHFYRY
S4- 10	A Data-Driven Fusion of Deep Learning and Transfer Learning for Orange Disease Classification	Amal SGHIR and Mohammed ZIANI
S5	Machine Learning and its Real-World Applications	Organizers: Samira EL MOUMEN, Abdessamad KAMOUISS and Tayeb OUADERHMAN
S5-1	Comprehensive Learning Crow Search Algorithm for Global Optimization	Kaoutar MOUHAYEN , EL MOUMEN Samira and LAKHBAB Halima
S5-2	A Nash Game-Theoretic Approach for Parallel Multi-Query Image Retrieval Using Deep Visual Features	Meriem MANSOUHI , Samira EL MOUMEN and Nouredine MOUSSAID
S5-3	Simulated Annealing Algorithm for the Permutation Flow Shop Problem: A Comparative Study of Neighborhood Operators	Imane MOUANGUI , Samira EL MOUMEN and Mohamed NAIMI
S5-4	A Simulated Annealing-Embedded Neural Network for Solving the Traveling Salesman Problem	Fakhita EDDAOUDI , Nouhaila ADIL, Halima LAKHBAB and Mohamed NAIMI
S5-5	Algebraic Firefly algorithm for Traveling Salesman problem	Ghazouani HEIDER , Halima LAKHBAB and Nouhaila ADIL

S5-6	Text2Profile: Automatic Generation of Candidate Profiles from Unstructured CVs using Attention-Based NLP Models	Soumia CHAFI , KABIL Mustapha and KAMOUISS Abdessamad
S5-7	Biclustering Algorithm for Heterogeneous Datasets	Meriem GANMATI , CHAMLAL Hasna, OUADERHMAN Tayeb
S5-8	Improved Gaining-Sharing Knowledge-Based Algorithm for solving Global Optimization Problems	Asmaa GOUZI , S. OUHIMMOUA and S. ELMOUMEN
S5-9	On the Limit Theorems for a Class of Non-Stationary Stochastic Processes	Soufiane MOUSSATEN
S5-10	Nonlinear Vibration Response of a Simply Supported Beam Subjected to Static Triangular Load	Mohamed JANATI , Lmokhtar IKHARRAZNE and Mustapha LAMINE
S6	Modeling and Analysis of Natural Phenomena	Organizers: Ahmed TAIK, Karam ALLALI and Nouredine MOUSSAID
S6- 1	Hybrid Experimental and ANN Approach for Predicting Thermophysical Properties of Biofuel-Oxygenated Additive Blends	Rachid AITBELALE , Fahd KARAMI and Driss MESKINE
S6- 2	Computational modeling of cancer response to oncolytic virotherapy	Hamid LEFRAICH
S6- 3	New interpretation of bimodality of solid products distribution in a magmatic chamber	Morad LAKHSSASSI , Youssef JOUNDY and Ahmed TAIK
S6- 4	Influence of Welding Defects on the Integrity of Pressure Vessels According to ISO 5817	Ikram ELKORAICHI , M. ALHAJJAJI , A. ZAMMA
S6- 5	A Two-Strain Epidemic model with a Mean-Field Vaccination Game	Madiha CHAGDAL and Karam ALLALI
S6- 6	Developments on spectral characterizations of graphs	Abdelhakim CHIBOUB , BOUSSAIRI Abderrahim and LAKHLIFI Soufiane
S6- 7	Mean-Field Reflected Generalized BSDEs with Jumps Under Stochastic Conditions	Mohammed ELHACHEMY
S6- 8	Graph p-Laplacian and Spectral Clustering	Farah SNIBA , Fahd KARAMI and Driss MESKINE
S6- 9	Predicting the Moroccan Stock Market A Systematic Review of Econometric and Machine Learning Approaches	Mohamed EL BADAoui , Brahim RAOUYANE, Samira EL MOUMEN, and Mostafa BELLAFKIH
S6- 10	Existence and uniqueness of integral solutions to a parabolic equation governed by the fractional p-Laplacian operator	Mohamed EL HATHOUT , ALAA Nour Eddine and FAHIM Houda