

جامعة 8 ماي 1945 قـالمة – مخبر العلوم وتكنولوجيا الإعلام والاتصال

University of May 8, 1945 Guelma - Laboratory of Sciences and Technologies of Information and Communication



**Fourth Conference on Informatics and Applied Mathematics IAM'21
01-02 December 2021, Guelma-ALGERIA**

01/12/2021

Keynote speaker: Dr. Messaoud ALKAMA

Building trust in Artificial Intelligence

Time: 09:00 – 09:30

Session A1: Mathematics (5) Time:

10:00 – 12 :00

12	Zakaria Boumezbeur and Hacène Boutabia	On the existence and uniqueness of Solution of G-Neutral Stochastic Differential Equations
83	Welid Grimes and Mohamed Achache	Infeasible penalty interior-point method for linear complementarity problems
86	Nourhane Attia, Djamila Seba and Abdelkader Nour	Solving the Nonlinear Time-Fractional Benjamin- Bona-Mahony Equation on the Reproducing Kernel Hilbert Space Basis
Break (20 min)		
17	Rima Faizi	Weak solution and distinguishability in a time-fractional diffusion problem
74	Derbal Louiza	A NEW complexity analysis for P*(k)-LCP based on new search direction
Session A2: Mathematics (4) Time : 13:00 – 15:00		
37	Ziadi Raouf	An algorithm for continuous global optimization by dimensionality reduction
25	Abdelkader Laiadi	Free surface flow past a semi-infinite inclined plate with zero gravity

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43	Hebbache Zineb	Constacyclic codes over \mathbb{F}_q and their application of constructing quantum codes
76	Naziha Bordj and Nadjia El Saadi	Analysis of the efficiency of a spatial moment model (SMM) in approximating an individual-based model (IBM) for modelling the aggregative behaviour of mobile phytoplankton.
54	Miguel Felgueiras, João Martins and Rui Santos	Tail-weight increase by a mixing process

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Keynote speaker : Dr. LERARI LEILA

Startup's creation and the impact of new technology in the socio-economic world

Time: 09:30 – 10:00

Session B1: Optimization (5) Time : 10:00 –12:00

23	Ismail Haddad, Aissa Belmeguenai, Djamel Herbadji and Selma Boumerdassi	Color image encryption based on Fractional-order logistic map
26	Hani Ben Abdallah and Lazhar Tamer	A Necessary Stochastic Maximum Principle of Markov Regime-Switching Forward-Backward Jump Model
88	Nadir Mahammed, Abdelghani Bekka, Souad Bennabi, Zouaoui Guellil, Badia Klouche and Imène Saidi	A Modified NSGA-II with K-means Clustering' and Silhouette Coefficient' Hybridization

Break (20 min)

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94	Soumaia Kahloul and Djaafar Zouache	Multi-Objective Henry Gas Solubility Optimization Algorithm for solving MOPs*
73	Slimane Bellaouar, Ahmed Itbirene and Brahim Chihani	Topic Modeling with word embeddings
Session B2: Optimization (4) Time : 13:00 – 15:00		
24	Abderrahmane Belguerna	Criteria Comparison between the Box-Jenkins method and the exponential smoothing method in short-term forecasts using R software
48	Samia Khelladi	Comparative numerical study between two Dai-Liao type conjugate gradient methods
44	Gattal Elhachemil and Benrazek Ala Eddine	Memory Optimization Problem in Embedded Systems: A Survey
52	Sakina Othmani and Nasser-Eddine Tatar	Synchronization of neurodynamic systems involving continuously distributed delays
27	Fatiha Loucif and Sihem Kechida	Optimal backstepping controller for a robot manipulator using Slime Mould Algorithm

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**Session D1: E-learning and Process management (4)
Time : 10:00 – 12:00**

62	Afifi Chaima and Khebizi Ali	A Review of Business Process Mining and a Trend Analysis of Artificial Intelligence-Powered Approaches
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68	El Yazid Gueddoudj	Towards an Ecient ETL Processes
77	Mehenaoui Zohra, Abda Youssouf, Boucehmel Toufik and Lafifi Yacine	RecMOOC, A System for Recommending Learning Resource in MOOC
52	Sakina Othmani and Nasser-Eddine Tatar	Synchronization of neurodynamic systems involving continuously distributed delays
Session D2: E-learning and Process management (3) Time : 13:00 – 15:00		
35	Hazem Bensalah, Djalila Boughareb, Zinedine Kouahla and Hamid Seridi	KD-tree-Based Approach for Ads Recommendation
34	Ali Wided and Bouakkaz Fatima	Efficient Resource management and Load Balancing in Grid Computing by using Auction model
84	Houda Tadjer and Yacine Lafifi	Exploring the relationship among time management, soft skills and cognitive dimensions of learners in collaborative learning environments

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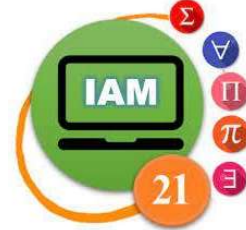
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Session E1: Deep Learning (4) Time: 10:00 – 12:00		
22	Mohammed Saddek Mekahlia, Mohammed Fezari and Ahcen Aliouat	Classification Of Heart Sound Signals Using Scalogram And Convolutional Neural Network
10	Neili Zakaria, Fezari Mohamed, Redjati Abdelghani and Kenneth Sundaraj	A comparative study of the VGG16 Trained from Scratch and using Transfer Learning for Lung Sounds Classification
55	Lallouani Bouchakour and Mohamed Debyeche	Deep Neural Networks For Speech Recognition In Mobile Communication
78	Adel Kermi, Farah Bounsiar, Sonia Reffad and Mohamed Tarek Khadir	A 3D-CNN Model for Automated Gliomas Sub-Regions Segmentation in Multimodal Brain 3D-MRIs
Session E2: Healthcare and System monitoring (4) Time: 13:00 – 15:00		
41	Anwar Noureddine Bahache, Noureddine Chikouche and Fares Mezrag	An analysis of user authentication schemes for WBAN in healthcare applications
46	Abdesalam Amrane, Abdelkrim Meziane, Nour El Houda Boulkrinat and Ali Atik	Real time TV Content Analysis for Multimedia Monitoring System
93	Assia Boukhamla, Nabiha Azizi, Mahdi Berranem, Ibtissem Gasmi and Samir Belhaouari	Automatic Heart Disease Detection Based on a New Dynamic Ensemble Selection Cooperation Scheme

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LabSTIC Doctoral Students.		
Time: 15:00 – 17:30		
01	Aouamria Selma	INTERNET OF THINGS BASED HEALTHCARE APPLICATION: A BRIEF STATE
02	Bouacida Imane	Internet of Things in Agriculture: Smart Farming and Precision Agriculture Overview
03	Amira OURECHAK	Data reduction at the network edge in IoT-based applications: a review
04	Abdelhalim Hadjadj	Health Monitoring System for the elderly using Semantic Web of Things
05	Benchaker Mohamed Ezine	Exploring E-Learning Through the Lens of Learning Analytics
06	FARAH Rania	Load Short-Term Forecast by Linear Regression and Artificial Neural Network
07	Djallel Hamouda	Android Malware detection based on network analysis and deep convolutional neural network
08	Mabrek Zahia	A Report on the applications of UAVs in Internet of Things (IoT)
09	Zerdoudi Souhila	Learning analytics techniques and learner engagement in online learning environments
10	BERINI Dia Eddine Aymen	Authentication schemes for internet of drones: Taxonomy, threat models and future research directions

