



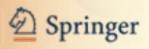
I2COMSAPP International Conference on Artificial Intelligence and its Applications in the Age of Digital Transformation 23-25 April 2024

Convention Center (Palais des Congrès), Nouakchott, Mauritania

		<u>Program</u>	
Time	Tuesday, 23 April 2024		
8h30-9h00	Reception and registration of participants		
9h00-10h00		Opening & Welcome	
10h00-10h10	Coffee Break		
10h10-10h55	Plenary Session Prof. Mohamed Jemni Director of ICT at The Arab League Educational, Cultural and Scientific Organization		
	Title of Talk: Using AI, Metaverse	and NFT in Education to promote for Youth	e Innovation and Entrepreneurship
11h00-12h30	Oral Session 1: Smart Cities and Building Paper ID: 23,47,65,55,59	Oral Session 2: Natural Language Applications Paper ID: 32,70,42,33,76	Oral Session 3: Generative AI and Applications Paper ID: 10,20,50,80,1,27
	Salle 1	Salle 2	Salle 3
12h30-13h30		Lunch	
	Plenary Session Prof. Muhammad ABDUL-MAGEED Canada Research Chair in Natural Language Processing and Machine Learning, University of British Columbia & Mohamed bin Zayed University of Artificial Intelligence Title of Talk: Pathways to the Future: Toward Arabic- and Afro-Centric Generative AI		
13h30-14h15	Canada Research Cha University of British Colun	r of. Muhammad ABDUL-MAGEI ir in Natural Language Processing a ubia & Mohamed bin Zayed Univers	and Machine Learning, sity of Artificial Intelligence
13h30-14h15 14h20-15h50	Canada Research Cha University of British Colun	r of. Muhammad ABDUL-MAGEI ir in Natural Language Processing a ubia & Mohamed bin Zayed Univers	and Machine Learning, sity of Artificial Intelligence
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	Canada Research Cha University of British Colum Title of Talk: Pathways to Oral Session 4: AI Applications in Health and Cancer Detection Paper ID: 12,57,81,82,31,41	rof. Muhammad ABDUL-MAGEI ir in Natural Language Processing a abia & Mohamed bin Zayed Univer- the Future: Toward Arabic- and A Workshop 4 From Machine Learning to Tiny Machine Learning with Edge Impulse	And Machine Learning, sity of Artificial Intelligence Afro-Centric Generative AI Workshop 1 Unlocking Educational Potential: A Practical Guide to Integrating Generative Artificial Intelligence in the classroom
14h20-15h50	Canada Research Cha University of British Colum Title of Talk: Pathways to Oral Session 4: AI Applications in Health and Cancer Detection Paper ID: 12,57,81,82,31,41	rof. Muhammad ABDUL-MAGEI ir in Natural Language Processing a abia & Mohamed bin Zayed Univer- the Future: Toward Arabic- and A Workshop 4 From Machine Learning to Tiny Machine Learning with Edge Impulse Salle 2	And Machine Learning, sity of Artificial Intelligence Afro-Centric Generative AI Workshop 1 Unlocking Educational Potential: A Practical Guide to Integrating Generative Artificial Intelligence in the classroom



كلية العلوم والتقنيات Faculté des Sciences et Techniques





Time	Wednesday, 24 April 2024			
8h30-9h00	Reception and registration of participants			
9h00-9h45	Plenary Session Prof. Farid MEZIANE Head of the Data Science Research Centre, College of Science and Engineering, University of Derby, United Kingdom Title of Talk: Exploiting Web Resources to Support Automatic Course Design			
9h45-10h00		Coffee Break		
10h00-11h30	Oral Session 6: AI applications in Business and Tourism Paper ID : 58,69,21,43,26,68	Oral Session 7: AI Applications in Security Paper ID: 85,36,39,84,74	Oral Session 8: AI Applications in Industry and Manufacuring Paper ID: 9,22,30,4,78,83	
	Salle 1	Salle 2	Salle 3	
11h30-13h00	Oral Session 9: AI applictions for Smart and Green Energies Paper ID: 8,71,13,25,86	Oral Session 10: AI Applications in Education and Learning Paper ID: 72,11,24,29	Workshop 2 Generative AI in the Era of Large Language Models (LLMs)	
	Salle1	Salle 2	Salle 3	
13h00-14h00	Lunch			
14h00-14h45	Plenary Session Prof. Mohamed DERICHE Artificial Intelligence Research Center (AIRC),College of Engineering and Information Technology, Ajman University, United Arab Emirates			
	Title of Talk: Evaluating Multimedia Content Quality in the Age of Generative AI			
14h50-16h20	Workshop 5 – Faculty of medecine Medical Image Segmentation and Surgical Guidance	Workshop 3 Presentation of the AlKhalil Platform for Arabic Language Processing	Workshop 2(Continuation) Generative AI in the Era of Large Language Models (LLMs)	
		Salle 2	Salle 3	
16h20-16h30	Coffee Break			
16h30-18h00	Workshop 5 – Faculty of medecine Presenters: Javier Pascau & Mónica García- Sevilla Universidad Carlos III de Madrid, Madrid, Spain	Workshop 3 (Continuation) Presenters: Prof. Azzeddine Mazroui and Prof. Abdelhak Lakhouaja, from Oujda-NLP team, Mohammad Ist University, Morocco.	Workshop 2 (Continuation) Presenters: Group of expert scientists and professionals from different Universities, MBZUAI and others.	

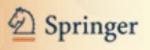






Time	Thursday, 25 April 2024	
8h30-9h00	Reception and registration of participants	
9h00-9h45	Plenary Session Prof. Anis KOUBAA Aide to the President of Research Governance Director of Research and Initiatives Center Leader of the Robotics and Internet-of-Things Lab Title of Talk: Generative AI's Surge: Is it the Countdown to Human Expertise's Expiry ?	
9h45-10h00	Coffee Break	
10h00-10h10	Online presntation from Arab Scientific Community Organization(ARSCO)	
10h10-10h20	AI research projects in Mauritania El Benany Mohamed Mahmoud	
10h20-11h00	 Discussion Panel: « Ethics in AI » Open dialogue with experts : 40 minutes 	Moderator:
11h00-11h50	 Discussion Panel: « Mauritania AI Srategic plan » Discussion about Mauritania AI Srategic plan by MTNIMA : 40 minutes Discussion: 10 minutes 	Moderator: Dr. Meina Amar
11h50-12h40	 Discussion Panel: « AI Future » Online presentation from ESCWA : 10 minutes Open dialogue with experts : 40 minutes 	Moderator:
12h40-13h40	Lunch	
13h40-14h10	Recommandations and Conference Closing	Moderator:



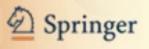




Details of Papers:

Paper#	Authors	Title
58	Marwa Ben Salah, Yengui Ameni and Mahmoud Neji	Initial Steps Required for Archaeological Image Processing
69	Haifa Degachi , Ameni Yengui and Mahmoud Neji	Hybrid approach to define axioms of the multimedia ontology of the archaeological field
21	Charaf Ouaddi, Lamya Benaddi, Abdeslam Jakimi, Brahim Ouchao and Abdelmounaïm Abdali	Artificial Intelligence in Tourism Sector: Analysis Study
43		Chatbots in Tourism Over the Past 10 Years: Analysis Study
26	Haddemine Sidi Yahya, Mohamedou Cheikh Tourad, Outfarouin Ahmad and Mohamedade Farouk Nanne	Empowering Wallet Transactions: Advancing Finance Chatbot Technology in Mauritania
68	M'Hamed Beibou	Digital transformation based on cutting-edge technologies. Case study: Mauritania 4.0
72		Empowering Education: Harnessing Artificial Intelligence for Adaptive e-Learning Excellence
11	Mohamed Radid, Aziz Naciri and	Enhancing Active Comprehension of Redox Concept in Moroccan Secondary Education through the Digital Mind Map
24		Personalized E-learning Recommender System Using Machine Learning
29	Wasfi Al-Khatib, Mohammad Amro, Abdulkareem Alzahrani, Taha Fanoush and Moustafa Elshafei	Arabic Pronunciation Assessment for Saudi Arabian Students- Corpus Development and System Architecture
12		Machine Learning-Based Prediction of Breast Cancer: A comparative study
57	Ahmed Abougarair, Fursan Thabit and M. Tabet	Breast Cancer Histopathology Images Detection
81	Derdour and Abdellah Kouzou	Features Engineering-Driven Deep Learning Approach for Improved Pulmonary nodules diagnosis
82	Makhlouf Derdour and Abdellah Kouzou	Innovative Approaches to Colon Cancer Imaging: Leveraging One-Shot Learning with MobileNetV2 Feature Extraction
31		A Comparative Study of Skin Cancer Prediction Using Deep Learning Techniques







41		Predictive Modeling of Neoadjuvant Breast Cancer Treatment Responses: A Comparative Analysis of CNN, Vision Transformer and Machine Learning Models
63	Safa Boughougal, Mohammed Ridda Laouar, Abderrahim Siam and Ahmed Mohamed Salem	Comparative Analysis of Machine Learning Classifiers for Early Prediction and Diagnosis of Renal Disease
51	El Mahdi Ayou, Abdelouahed Sabri and Aarab Abdellah	3D segmentation of abdominal organ images using deep learning
60	Chaouki Makhlouf, Mohamed Ridda Laouar, Salima Bourougaa and Ahmed Mohamed Salem	Using artificial intelligence for screening and grading Diabetic Retinopathy disease: an Overview
38	Aboulmira Amina, Oussama Fikri, Brahom Gouali, Hamza Boukhrisse, Hamid Hrimech, Mohamed Lachgar, Hafsa Benzzi and Mohamedou Cheikh Tourad	Advancing Dermatological Diagnostics: A Comparative Analysis of CNN Models in Skin Disease Classification
56	Hakim Bendjenna, Ridda Laouar, Abdallah Meraoumia and Diallo Yaccoub	Ensemble Classifier for Enhancing Osteoporosis Diagnosis Accuracy
35	Fatima Ezzahra Labriki, Zouhair Elamrani Abou Elassad and Othmane El Meslouhi	Cassava Leaf Diseases Detection: Integration of Deep Learning and Data Augmentation Techniques
9	Zakarya Belimane, Ahmed Hadjadj and Aberrhamane Benbrik	Modeling viscoplastic fluid flows through partially- blocked annulus using surrogate model
22	Mansour Mayouf and Ahmed Hadjadj	Real-Time Torque and Drag Prediction in Oilwell Drilling: A Comparative Study of Machine Learning Models
30	Eslemhoum Moustapha Hachimi, Mohamedou Cheikh Tourad, Med Yahya Medsalem, Ahmedou Haouba, Simon Thevenin and Alexandre Dolgui	Maximizing total net revenue for the Identical Parallel Machines Order Acceptance and Scheduling Problem with Sequence-Dependent Setup Times
4	Sana Chakri, Naoual Mouhni, Mohamedou Cheikh Tourad and Abdeslam Jakimi	Benchmarking Outlier Detection: Integrating Classical Methods and Deep Learning Techniques for Advanced Fault Analysis
78		Robust and Intelligent Fuzzy Logic Controllers for a Differential Mobile Robot Trajectory Tracking
83	Ahmed Abougarair and Ahmed Al-Shareef	Modelling and Control of Sphere and Cylinder System
85	Djaber Guassmi, Dehimi Nour El Houda, Mekhlouf Derdour and Kouzou Abdellah	Towards using Machine Learning Techniques for MultiAgent Systems Testing
36	Sabri Abdelouahed, Asmae Ennaji, Assia Ennouni and Aarab Abdellah	Face detection based on deep learning approaches: A comparative study







39	Mohamed Lemine Salihi	A Novel Artificial Intelligence-based Intrusion Detection System - NAI2DS
84	Zakaria Tolba, Nour El Houda Dehimi, Makhlouf Derdour and Abdellah Kouzou	Deep and Wide Neural Networks for Distinguisher attacks
74	Mohammed A. Al-Gunaid, Maxim V. Shcherbakov, Vladimir O. Artyushin, Mohammed Al-Sarem, Sergey V. Belov and Dmitry V. Shkolny	Detecting Anomalies in Multidimensional Time Series Using the Three-Sigma Method
8	Khalil Tidriri, Abdelmounaim Abdali and Abdeslam Jakimi	A Weather based machine learning approach to predict electricity output from photovoltaic panels
71	Mohamed Salah Benkhalfallah, Sofia Kouah and Fateh Benkhalfallah	Enhancing Advanced Time-Series Forecasting of Electric Energy Consumption based on RNN augmented with LSTM Techniques
13	Soukeyna Mohamed, Vatma Elvally and Abdel Kader Mahmoud	the prediction of the wind speed and the solar irradiation in the Sahel using the Artificial neural networks(case study: site of Nouakchott)
25	Ibtissam Amalou, Nacual Mouhni, Abdelmounaim Abdali, Abdeslam Jakimi and Mohamedou Cheikh Tourad	Deep learning for smart grid application: addressing data scarcity challenges and enhancing load forecasting efficiency
86	Ahmed Siabdelhadi, Abdelkader Ouared and Hadda Cherroun	Collective Intelligence for Model Transformation by Example
10	Sundarapandian Chellakkannu	Embracing Generative AI in Design: Practical Implementations
20	Lale El Mouna, Mohamedou Cheikh Tourad, Mohamedade Farouk Nanne, Hassan Silkan and Youssef Hanyf	Al-Generated Fake Image Detection using Pre- trained CNN Models
50	Fatimetou Abdou Vadhil, Mohamedade Farouk Nanne and Mohamed Lemine Salihi	The Powerful_AI: An Exploration of Generative Artificial Intelligence Taxonomy and Applications
80	Zineb Touati Hamad, Mohamed Ridda Laouar and M.H. Diallo Yaccoub	A Comparative Analysis of ChatGPT and AI- Powered Research Tools for Scientific Writing and Research
1	Pritish Sinha, Khushi and Arvind Dagur	Improved framework model to train and evaluate difficulty of interview question using generative AI