



TECHNICAL PROGRAM

Wednesday 26th June 2024

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| 08:00 – 08:45 | Reception of the participants |
| 08:45 – 09:00 | Opening Ceremony |
| | Session A : chairs : Pr. Johan DEBAYLE, Dr. Priyanka C. Bhatt, Dr. MEkhaznia Tahar |
| 09:00 – 09:30 | Keynote 1: “Pattern Recognition and Image Analysis of Granular Media ”, Johan DEBAYLE |

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| 09:30 -09:45 | <i>"Photovoltaic Cell Defect Classification Using Attention U-Net Image Segmentation", Ahmad Alzubi</i> |
| 09:45 -10:00 | <i>"Using Deep Learning to Translate Algerian Sign Language to Spoken and Written Words", Abderrazak BENAROUS, Leila BENAROUS, Salim Bitam, Abdelhamid Mellouk</i> |
| 10:00-10:15 | <i>"Ulcerative Colitis Image Classification using Federated Deep Learning", Mohammed Alrefai</i> |
| 10:15-10:30 | <i>"Explainable Artificial Intelligence Approach to Predict Student Entrepreneurial Competency", Priyanka C. Bhatt, Vinayak A. Drave, Yu-Chun Hsu, Kuei-Kuei Lai</i> |
| 10:30-10:45 | <i>"Accelerating Traditional Object Detection Methods on Sophisticated Embedded Systems", Kamal Sehairi, Abdelkader Bouhafes, Ibtissam mama Boucherit, Thierry Bouwmans, Fatima Chouireb</i> |
| 10:45-11:00 | <i>"Novel hybrid feature selection method and globalization technique for text classification.", Sahar BOULKABOUL, Kamal Amroun, Dalila Mekhzoumi</i> |
| 11:00-11:15 | <i>"Underwater Image Enhancement Using Improved Waternet", OUAFA BENAIDA, Loukil Abdelhamid, Adda Ali Pacha</i> |
| 11:15-11:30 | <i>"Enhancing Video Interaction Accessibility for Individuals with Impairments through CNN", Taha Ali, Jawad Rasheed, Mohammed Alkrunz, Negar Sadat Soleimani Zakeri, Ravi Sekhar, Pritesh Shah</i> |
| 11:30-11:45 | <i>"Boosting CRM Chatbot Solutions with Flash Attention and Probabilistic Inference", Ahmet Can Günay, Muhammet Furkan Özara, Ahmet Erkan Çelik, Akhan Akbulut</i> |
| 11:45-12:00 | <i>"Analysis of the Reference Activity of a Sample of Academic University Members on the Uses of Artificial Intelligence in the Educational Process and Challenges of its Application.", Ahmed al hadhrami, Hamed Alyahmadi, Said Al Rashidi, Khoula Salim Al habsi, Ali Boukhalkhal</i> |
| 12:00-12:15 | <i>"Empowering Healthcare with Deep Learning: An Application for Early Detection of Skin Cancer", Komolafe Joseph Oluwatobi, Ikram Asghar, Muhammad Diyan, Rashiq Rafiq Marie, Sidra Saleem, Rahmat Ullah, Jawad Ahmad</i> |
| 12:15-12-30 | <i>"The degree of practice of English language teachers in applying artificial intelligence applications in the educational process and its challenges.", Ahmed al hadhrami, Naila ALHadhrami, Hamada saud al mughairi, Anwar Saleh Al Balushi</i> |
| 12:30-12:45 | <i>"Feature Extraction and Dimensionality Reduction to Evaluate Decision Tree Ensembles for Diabetic Retinopathy Detection", Chyamaa Lahmar, Ali Idri</i> |
| 12:45-13:00 | <i>"To Ensemble or Not: Assessing Majority Voting Strategies for Phishing Detection with Large Language Models", Fouad Trad, Ali Chehab</i> |
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| | Session B - chairs : Pr. Fakhreddine ABABSA, Drs. Imad Reda , Minhaz F. Zibran |

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| 14:00 – 14:30 | Keynote 2: “Dictionary learning for signal classification”, Dr. Imad Reda |
| 14:30-14:45 | "A Fast and Accurate High-Dimensional Clustering for Identifying Dysregulated Gene-Function", Billel KENIDRA, Mohamed BENMOHAMMED |
| 14:45-15:00 | "Efficiency Meets Resilience: Accelerating Object Detection in Embedded Environments through Compressive Sensing", Imene Bouderbab, Abdenour Amamra |
| 15:00-15:15 | "Exploiting Attackability for Effective Textual Adversarial Attacks", KHEMIS Salim, AMARA Yacine, BENATIA Mohamed Akrem |
| 15:15-15:30 | "An Automated Technique for Detecting Sinkholes from Lidar DEMs in Railway Environments", Maryem BOUALI, Muhammad Ali SAMMUNEH, Rani ELMEOUCHÉ, Fakhreddine ABABSA, Bahar SALAVATI, Flavien VIGUIER |
| 15:30-15:45 | "Air Quality Forecasting in Presence Missing Data", Zeynep Idil Erzurum Cicek, Zeliha Ergül Aydın |
| 15:45-16:00 | "Hybrid Wiener Filter and Sharpening Filter for Image De-Blurring", Nada Habeeb Nada Habeeb Nada Habeeb |
| 16:00-16:15 | "Leveraging DQN-Based Recommender Systems for E-Commerce in Smart Cities", Sana ABAKARIM, Fatima Ezzahra ZAIZI, Sara QASSIMI, SAID RAKRAK, SAID RAKRAK |
| 16:15-16:30 | "The Effect of a Weighted Mean Pooling on the Performance of Convolution Neural Network", Inas Shadoul, Abdulnasir Hossen, Mostefa Mesbah, Rami Al-Hmouz |
| 16:30-16:45 | "Advancing Systematic Literature Reviews methodology through Topic Modeling", salma mekaoui, Arsalane Zarghili, Ilham Chaker, Nikola S. Nikolov |
| 16:45-17:00 | "Revolutionizing Crop Leaf Disease Detection: A Novel Ensemble Learning Framework Using Customized EfficientNets", Nahrin Jannat, S. M. Mahedy Hasan, Minhaz F. Zibran |

Thursday 27th June 2024

Session c : chairs : Dr. Jawad Ahmad, Dr. M'hamed MATAOUI

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| 09:00 – 09:30 | Keynote 3: “Application of Substitution Boxes in Image Encryption for Enhancing Security in Highly Correlated Data”, Dr. Jawad Ahmad |
| 09:30 -09:45 | "Holistic Ontology Alignment using ontologies Embeddings", Houda AKREMI, Sami Zghal |
| 09:45 -10:00 | "BA-GAN: A Boundary-Aware Generative Adversarial Network for Document Restoration", Amin Ghasemi Nafchi, Mohamed Cheriet |
| 10:00-10:15 | "Leveraging Knowledge Graphs for Paper Recommendation Systems", M'hamed MATAOUI, Haithem Bahloul, Allaeddine Ziane |
| 10:15-10:30 | "Advancements in Parkinson’s Disease Diagnosis: From Biomarkers to Wearable Technology and Machine Learning", Haris Rasees, Ahmed Mehmood, Muhammad Talha, Fazeel Abid, Tunc Asuroglu, Ravi Sekhar, Pritesh Shah |
| 10:30-10:45 | "Multimodal Video Understanding and Temporal Grounding with Large Language Model", Zubair Mohammed, Suneetha Manne, Gopi kishore reddy |
| 10:45-11:00 | "A Parameter-Free Normal Estimator on Digital Surfaces", Aude Marêché, Fabien Feschet, Phuc Ngo, Isabelle Debled-Rennesson, Isabelle Debled-Rennesson |
| 11:00-11:15 | "ReaL: Reassessing Softmax Score by Logits Distillation for Foundation Model Based Intent Classification", Gábor Szűcs, Modafar Al-Shouha |
| 11:15-11:30 | "Refining U-Net Architecture through Genetic Algorithms for Improved Skin Lesion Image Segmentation", FOUZIA EL ABASSI, AZIZ DAROUICHI, Aziz OUAARAB |
| 11:30-11:45 | "Implementation of a comparative study of convolutional neural network architectures for image blind noise elimination", Oumaima ANZAL, Najib Guessous, Youssef Ouakrim |
| 11:45-12:00 | "One-Class Convolutional Neural Network for Arabic Mispronunciation Detection", Meriem Lounis, Bilal Dendani, Halima Bahi |
| 12:00-12:15 | "A Turkish Educational Quiz Generator", Kamyar Zeinalipour, Marco Maggini, Marco Gori, Yusuf Gökbek Keptiğ |
| 12:15-12:30 | "Generation of Synthetic Image Anomalies for Analysis", David Breuss, Karel Rusý, Maximilian Göttinger, Axel Jantsch |
| 12:30-12:45 | "Diabetic Retinopathy Grade Assessment using ResNetRS", Yahya Bouslimi, Dhia Elhak Bouslimi, Afef Kacem |

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| 12:45-13:00 | <i>"Swin Transformer for Handwriting Signature Verification", fadoua bouafif, Afef Kacem Echi, Halima Ben Dhief</i> |
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| | <i>Session D : chairs : Prs. Nadeem Javaid, Khalifeh Ala, Drs. Sneha Chauhan, Hanifi MEEROUFEL</i> |
| 14:00 – 14:30 | <i>Keynote 4: "Minds and Machines: Future Perspectives of AI ", Nadeem Javaid</i> |
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| 14:30-14:45 | <i>"GAN-Enhanced Deep Learning Approach for Forecasting the Potentially Toxic Cyanobacteria in Dams", Nour Djihane Amara, Dendani Nadjette, Amel Saoudi, Nabiha Nabiha, amira berrezek, Hana Khemissa</i> |
| 14:45-15:00 | <i>"Comparative study using ensemble methods and sampling techniques for imbalanced diabetes data.", Hana Khemissa, Dendani Nadjette, nabiha azizi, yasmine khedimi, Nour Djihane Amara</i> |
| 15:00-15:15 | <i>"Boosting Methods for Predicting Cyanobacteria's Potential Toxicity in Water Dams", amira berrezek, Dendani Nadjette, Amel Saoudi, Nabiha Azizi, Nour Djihane Amara</i> |
| 15:15-15:30 | <i>"Enhancing Heart Disease Prediction through Logical Analysis of Data", Sneha Chauhan, Aditi Kar Gangopadhyay</i> |
| 15:30-15:45 | <i>"A Survey on Digital Humans: Taxonomy, Challenges and Future Directions", Khalifeh, Ala</i> |
| 15:45-16:00 | <i>"Beyond Spatial: A Wavelet Fusion-based Deep Learning CAD for Skin Cancer Diagnosis", Omneya Attallah</i> |
| 16:00-16:15 | <i>"Enhancing Forest Fire Classification with Feature Selection and Machine Learning based on PRISMA Hyperspectral Data", Hanifi MEEROUFEL, Faouzi Berrichi, Mohammed Bilel Amri, Mohammed El Amin Larabi</i> |
| 16:15-16:30 | <i>"Drugs Recommender System Based on Side Effects", Amel ZIANI, Mohamed Amine Adouane, Mohamed Ayoub Delladj, Fatima Zahra Brahimi</i> |
| 16:30-16:45 | <i>"DLGPD: Using Dynamic Population Sizing for Enhanced Hotel Performance Prediction in Oman", rasha abdulwahhab, Shqran Al Mansoory</i> |
| 16:45-17:15 | <i>Closing Ceremony and Best Paper Awards</i> |